Literatursuche ChatGPT 2023 02 22

Authors	The Al writing on	NATURE	Year	/olume	Issue	Pages Ke	Ceywords	Abstract Guidelines are urgently needed for the use of generative AI tools like ChatGPT in scientific writing.	10.1038/s42256-023-00613-9	URL
	the wall	MACHINE								
F. Ali, Zhang, Q. Y., Tauni, M. Z., Shahzad, K.	Social Chatbot: My Friend in My Distress	INTERNATIONAL JOURNAL OF HUMAN- COMPUTER INTERACTION				PF CC PE SA US AC ES	ROBLEMATIC INTERNET USE, IONTINGENT SELF-WORTH, ERSONALITY-TRAITS, LIFE ATISFACTION, SMARTPHONE ISAGE, MEDIA USE, IODICTION, ANXIETY, STEEM, FEAR	This study investigates the impact of social interaction anxiety on compulsive that with a social chatboth named Xiaokor. To provide insights in the limited iterature, the authors sophic there rise of fer and registive evaluation (FOM) and fear of rejection (FOR) as mediators in this relationship. By applying a variance-based structural equation modeling on a non-clinical sample of 36C Ohnes university students who have interacted with Xiaokor, the authors find that social interaction anxiety increases compulsive char with a social chatbot both directly and indirectly through hear of negative evaluation and rejection, with a more sublating lifet of the former. The mediating effect of fear of negative evaluation transfer through their of rejection, which establishes a serial limit between social interaction anxiety and compositive char with a social chatbot. Further, (CSG). These findings offer theoretical and practical insights into our understanding of the process by which social interaction anxiety influences chat behavior with a social chatbot.	10.1080/10447318.2022.2150745	
S. Baek, Kim, J., Lee, J., Lee, M.	Implementation of a Virtual Assistant System Based on Deep Multi-modal Data Integration	JOURNAL OF SIGNAL PROCESSING SYSTEMS FOR SIGNAL IMAGE AND VIDEO TECHNOLOGY				int je: Ac re NB RE	ntegrated system, Transfer earning, Natural language rocessing, Image processing, uction recognition, Gosture ecognition, COMVOLUTIONAL IEURAL-NETWORK, IECOGNITION, ATTENTION	In this study, we propose a virtual assistant system that is applied to real III the using signal processing and deep learning. First, the overall structure of the proposed system that integrates and controls various modules is introduced, after which we present a multi-modul fusion module that provides services to users. It integrates a natural language processing module for interpreting Korean chatots can a behavior recognition module for understanding user behavior using a RGB carrent. In addition, a hand getture recognition module that sufficient the user's intentions using AGB carrent. In addition, a hand implementation of a contonied service spotter with several parties 1 a user interface module that interacts with the user, if a face neophilon module that distinguished different users, and iii) a vote performance of each module, a tested was configured in an office environment. Through test results, we successfully demonstrate the realization of the proposed system in real life Finally, we list the challenges discovered during the operation of this system and suggest directions for further research.	10.1007/611265-022-01829-5	
S. Bansal, Nangia, P., Singh, S., Garg, I.	Electronic Retailing: Mapping the past for informing the future	INTERNATIONAL REVIEW OF RETAIL DISTRIBUTION AND CONSUMER RESEARCH				e−i be Sy: FU CL Of M CF	-tailing, online consumer ehavior, online retail, systematic literature review, ULFILLMENT DECISIONS, UJSTOMER EXPERIENCE, NUNLE, PERSPECTIVES, AANAGEMENT, INVENTORY, RITIQUE	The continuous growth of information and technology has resulted in considerable changes in the retailing environment, with a retriction on brick-and mortar retailing and a puch loward online retailing. The purpose of this study is to mag the available literature on -tailing in order to forecast where the field might be headed in the coming years and to identify the key features that contribute to estilling business. The paper employa in integrative nerview memory and to identify the key features and countrie that local the majority of eating research. The study examines major themes such as commune behavior and perception, technology and melia, pricing strategies, channel integration, cognitive impact, business strategies, and models, and channel strategies to powide a comprehensive framework of eating the site of the study or genimes infort storogy britter of eating by identifying topics, research evolution, annual publishing trends, and the most relevant journals. The study offers assistants, chatbots, A) and direct-to-consume markets while adding relevant concepts.	10.1080/09593969 2022 2152075	
G. Bonetta, Ribero, M., Cancelliere, R.	Regularization- based pruning of irrelevant weights in deep neural architectures	APPLIED INTELLIGENCE				Sp Re pr	parsity, Pruning, egularization, NLP, Image rrocessing	Deep neural networks septiciting million parameters are currently the norm. This is a potential issue because of the great member of computations needed for training, and the possible too of generalization performance of overgarismeterized networks. We propose in this paper a method for learning game neural topologies via a regularization approach that identifies nonrelevant weights in any type of layer (i.e., convolutional, ulticy connected, attention and embedding one) and selectively shrinks their norm while performing a standard back-propagation update for relevant layers. This technique, which is an improvement of classical weight decay, is based on the definition of a regularization term that can be added to any loss function regardless of its form, resulting in a unified general framework exploitable in many different contests. The actual elimination of parameters identified a intreevant is handled by an iterative proferomane in one conjoine the possibility of an intedix-player use of our proposed technique, we test it on sid different image classification and natural language generation tasks, mong which four are based on real distasts. We rech state-of-the-are performance in one out of four imaging tasks while obtaining results better than competitors for the others and one out of wor of the considered language generation tasks, both in terms of compression and merics.	10.1007/s10489-022-04353-y	
L. C. Budler, Gosak, L, Stiglic, G.	Review of artificial intelligence- based question- answering systems in healthcare	WILEY INTERDISCIPLINA RY REVIEWS- DATA MINING AND KNOWLEDGE DISCOVERY				ar co Ch mi CC AS FE	rtificial intelligence, onversational agents, hatGPT, health care, nachine learning, EMBODIED IONVERSATIONAL AGENT, SSISTANT, CHATBOT, EASIBILITY	Use of conversational agents, like chalabola, prature, and robots is increasing workholde. Yet, their effectivenes in health care is langely unknown. The and this advanced review was to assist the use and effectivenes of conversational agents in various fields of health care. A literature search, analysis, and synthesis were conducted in Fahruary 2021 in Hubbled and CMML. The included evidence as analysed narrainal by employing the projective of the synthesis of conversational agents in various intellation and the synthesis and analysis and explored in the synthesis and the synthesis and the synthesis and analysis and explored intelligence-based question-annuering systems in health care. Noto of the identified anticles report its effectiveness; less is knowledge about antificial intelligence-based question-answering systems. This article is categorized under-fundamental concepts of tablas and foundelge > Human Centricity and User interactionApplication Areas > Health CareTechnologies > Artificial Intelligence	10.1002/widm.1487	
Q. Chen, Lu, Y. B., Gong, Y. M., Xiong, J.	Can Al chatbots help retain customers? Impact of Al service quality on customer loyalty	INTERNET RESEARCH				AI Sa Va IN SU SU CC CC M M M	II chatbots, Service quality, attifaction, Cognitive trust, Hifective trust, Preceived alue, Customer loyalty, NFORMATION-SYSTEMS UCESS, MULTIPIE-ITEM CALE, E-COMMERCE, CONSUMER PERCEPTIONS, ISABILITY CONSERVICE AUG. MICLAN ADDEPATING ROLE, MICLAN ADDEPATING ROLE, MICLAN ADDEPATING ROLE, MICLAN	PurposeThis study investigates whether and how the service quality of artificial intelligence [A] obtability affects contamer logistry to an organization.Chesign/methodica/paporabilitasion on the sequential data model of service quality (park), this study first classifies A chatbot service quality into nine attributes and then develops a research model to explore the internal mechanism of how A chatbot service quality faffects customer physical. The analysis of survey data from S49 respondents provided ingitists into the internetionophysica among A chatbot service quality attributes, perceived value, cognitive and affective trust, satisfaction and customer [vality]. FindingsThe results show that A chatbot service quality quark years the attributes of the service quality of into the internetion of the service quality opaticity and factors trustroluse of the service quality in the information system (5) field and extends the sequential chain model of quality logistic to factors of A leverice. The fieldings not only help are organization finds any to findings of quality value, trust, statifaction and logistic put in the information system (5) field and extends the sequential chain model of quality logistic to the context of A leverice. The fieldings not only help are organization find any us to findings catance's perceived value, trust, statifaction and logistic bat provide guidance in the development, adoption, and post-adoption stages of Al chatbots.	10.1108/INTR-09-2021-0686	
C. M. Dinh, Park, S.	How to increase consumer intention to use Chatbots? An empirical analysis of hedonic and utilitarian motivations on social presence and the moderating effects of fear across generations	ELECTRONIC COMMERCE RESEARCH				CH M inti CC coc coc inti RE DE IM PE V X ST	harbot, Social presence, Aotivation, Artificial Heiligence, Giobal pandemic, CVID-39, Fear, Generation Ohort, Robot-humman Interaction, BEHAVIORAL- BESTARU, SELE ESTARU, SELE ESTARU, SELE ESTARU, SELE MACT, SATISFACTION, ERSPECTIVE, ACCEPTANCE, ARMABLES, PURCHASE, IRESS	As chattos become more advanced and popular, marketing research has paid enormous attention to the artecedents of commer adoption of chattosts. This has accome increasing releases that the focus and be migrated by the global pandemic. Therefore, unlike previous work that focused on design factors, we thereits that social presence server a mediating role between consume motivations (i.e., hednoir and utilitarian) and interiors to use a chattos travice based on self-determination theory. Our results from a structural equation model (n = 377) indicate that hednoir (but not utilitarian) motivations anglinicanity affects chattors ² scalar presence on interiors to use the chatbot server. In this dynamic, we found an additional moderated moderation effect of generational chore (i.e., beyoth con- textructurations). Y, and 2) in experiencing different levels of fear of COVID-13 Overall, our findings emphasize the importance of motivation-matching features for consumer adoption of chatbot services. Our findings and in indicetes that marketers may utilize the earliest of the structuration of chatbot services, especially when targeting the young generations (e.g., Generation 2).	10.1007/s10660-022-09662-5	
G. Dosovitsky, Bunge, E.	Development of a chatbot for depression: adolescent perceptions and recommendation 5	CHILD AND ADOLESCENT MENTAL HEALTH				Ch ad ac int ag	hatbots, depression, dolescent, behavioral citvatori, digital tervention, conversational gent	Background/Dathots are a relatively new technology that has shown promising outcomes for mental health symptoms in adults; however, few studies have been done with adolecents or reported adolecent; user experiences and recommendations for developed to grychelocate adolecents on developmin tesh holhworld retrievals, and charge negative houghts. Then, the analysis was conducted of participant's reports to development tesh holhworld retrievals, and charge negative houghts. Then, the analysis was conducted of participant's reports to user experience guestions, impressions, and recommendations. Results/bee holl (56.5%) of the same) completed the ull intervention and provided user experience frequests (16.1%) and washibility (52.8%). The means (Fegure and Carbon and Carbo	10.1111/camb.12627	
B. Gordijn, ten Have, H.	ChatGPT: evolution or revolution?	MEDICINE HEALTH CARE AND							10.1007/s11019-023-10136-0	
E. Han, Yîn, D. Z., Zhang, H.	Bots with Feelings: Should AI Agents Express Positive Emotion in Customer Service?	INFORMATION SYSTEMS RESEARCH				en int ag se ex re EX SA QI DI DI V W	motional artificial ttelligence, conversational gent, chatoto, customer ervice, emotional contagion, pagectation-disconfirmation, elaitonship norm orientation, PAECTANCY VIOLATION, CONTAGION, ATISFACTION, CONTAGION, MODEL, JUAITY, ONLINE, MODEL, JUAITY, OLINE, MODEL, JUAITY, MODEL, MODEL, JUAITY, MODEL, JUAITY, MODEL, JUAITY, MODEL, JUAITY, MODEL, JUAITY, MODEL, JUAITY, MODEL, JUAIT	Catomers service employees are generally adviced to express politive entotion during their interactions with customers. The rise and matrix of a during limits (half) powered conversational agents, also known at chatbots, bge the question: chald data agents is decayinged with the ability to express positive entotion during customer envice interactions? This research explores how, when, and when all agent's expression of politive enrotion during customer envice interactions? This research explores how, when and when all agent's expression of politive enrotion directs customers? The envice evolutions we argue that all expressed positive entotions customers via dual pathways; an affective pathway of encitonal correspon and a cognitive pathway of expectations? Science validations there are happendic level of superstations. We fore- three introduces and individual director validations customers relationship more interaction, when there introduces and individual director validations there enclose one constration, when fracts therine expectations toward the Al agent and moderates the cognitive pathways; each strate of by an Al agent compared with a human employee, these findings deepen our understanding of customers' reactions to emotional Ais; and they offer valuable insights for the deployment of Ais in customer service.	10.1287/nme.2022.1179	
L. Henrickson	 Chatting with the dead: the hermeneutics of thanabots 	MEDIA CULTURE & SOCIETY				ar de dij im co lar lar th	rtificial intelligence, leadbots, digital endurance, ligital ghosts, digital mmorality, human-machine ommunication, natural anguage processing, hanabots, thanatechnology	In 2021, the San Francisco Chronicle released a feature article about a name who chose to resurred his decased facence by training a charted system built on OpenATG SFOT Jangage models on her old digital message. He then has the emotional conversations with this charbot, which appeared to accurately immic the decased's writing style. This case study raises questions about the communicative influences of thanabots charbot strande on date of the ded. While thanabots are dealer and questions about the communicative influences of thanabots charbots strande on date of the ded. While thanabots is released that thanabots exist in a long lineage of efforts to communicate with the dead, buil actionaledges that thanatechnologies must be more thoroughly studied for better undestanding of what it means to die in a digital age.	10.1177/01634437221147626	
A. H. Huang, Wang, H., Yang, Y.	FinBERT: A Large Language Model for Extracting Information from Financial Text	CONTEMPORARY ACCOUNTING RESEARCH				de mi lei so EA DI	leep learning, large language nodel, transfer learning, therpretable machine araning, sentiment lassification, environment, odal, and governance (ESG), ARNINGS, READABILITY, ISSCLOSURE	We develop FiBERT, a state-of-the-art large language model that adapts to the finance domain. We show that FinBERT incorporates finance knowledge and can better summarize contextual information in financial texts. Using a sample of researcher-labele stencers from analysis report, we document that FiBERT substantially outperforms the Loughtan and McDonald dictionary and other machine learning algorithms, including naive Bayes, support vector machine, random forest, convolutional neurostic network, and diog short term memory. In sustainent classification. Curr results show that FiBERT excels to identifying the positive or negative sentiment of sentences that other algorithms midabel as neutral, likely because it uses contextual informations in financial text. Fiber Hand State 1882, salong ever of the algorithm, and codes in identifying discussions enabled to environment, social, and governance issues. Last, we show that other approaches underestinate the textual informatives of a emission direct excels share lasts. Compared to FibeRTD, our results show the machine sciences of a emission direct excels to the site sciences. The state science academic researchers, investment profesionals, and financial market regulators.	10.1111/1911-3846.12832	

G. Jaimovitch Lopez, Ferri, C., Hernandez- Orallo, J., Martinez- Plumed, F., Ramirez- Quintana, M. J.	Can language models automate data wrangling?	MACHINE LEARNING		Data science automation, Data wrangling, Language models, Machine learning pipelines	The automation of data science and other data manipulation processes depend on the integration and formatting of "messy' data. Data wrangling is an unberlial term for these tedious and time-consuming tasks. Tasks such as transforming dates, units or names expressed in different formats have been chaltening for machine learning beauss (1) juses respect to solve them with short case or few examples, and (2) the problems depend heavily on domain inovidedge. Interestingly, large language models today (1) can infer form wryf exe examples or even a short clus in natural language, and (2) can integrate was amounts of domain inovidege. It is then an important research question to analyze whether language models are a promising approach for data wrangling, people's with the capabilities continue growing. In this paper we applied integrations, we compare the effect or promyta and fersion for the results and how they compare with specialized data wrangling speciality and the ends transfers on their estimats and how they compare with specialized data wrangling tasks. We provide some guidelines about how they can be integrated that dus data processing pleipheis, provide the users can take abanding of their field bills and they can be integrated that dus data processing pleipheis, provide the users can take abanding of their fieldbills and the diversity of tasks to be addressed. However, reliability is still an important suse to overcome.	10.1007/;10994-022-06259-9	
L. Q. Jing, Li, Y. R., Xu, J. H., Yu, Y. C., Shen, P., Song, X. M.	Vision Enhanced Generative Pre- trained Language Model for Multimodal Sentence Summarization	MACHINE INTELLIGENCE RESEARCH		Multimodal sentence summaritation (MMSS), generative pro-trained inguage model (GPMM), natural language generation, deep learning, artificial intelligence	Multimodal elemence summarization (MMSS) is a new yet challenging task that aims to generate a concise summary of a long sentence and its corresponding image. Although existing methods have gained promising success in MMSS have power/or have power/or task prover/or have provide task provid	10.1007/s11633-022-1372-x	
E. B. Kang, Kang, Y. A.	Counseling Chatbot Design: The Effect of Anthropomorphi Chatot Ch	INTERNATIONAL JOURNAL OF HUMAN- COMPUTER INTERACTION		SOCIAL RESPONSES, MANIEEST PESONALITY, NORRASEST RUST, THERAPIST, PSYCHOTHERAPY, RECOSNITION, GENDER, COMPUTERS, LANGUAGE, IMPACT	In recent years, there has been a growing interest in charbot that play counseling roles in the psychological health field. Previous studies have proposed counseling databots, however, they have not examined the anthrogomorphic characteristics of agents in detail. In counseling gratuations, the characteristics of counselors and counseless affect the counseling performance. This study proposes a counseling databot perform an intel interview and dataBite the anthrogomorphic characteristics of the chatbot into three dimensions; gender, personality, and visual interface cue-to examine these characteristics defined was observed for the gender of the chatbot or personality dimensions; however, a visual interface cue adversely affected the self-discours and companionship. Moreover, we examine the efferences caused by our characteristics to independent effects was observed for the gender of the chatbot or personality dimensions; however, a visual interface cue adversely affected the self-discours and companionship. Moreover, we examine the schered according to gender. These results are significant and above that visual interface cue schereds aboyed anthrogomorphic characteristics – cue schered be applied catefully with designing counsing databots. The anthrogomorphic thatbot the visual interface cue schered schered in the counseling databots. The anthrogomorphism of the databot needs to be adjusted according to be user characteristics.	10.1080/10447318.2022.2163775	
A. K. Kovalev, Panov, A. I.	Application of Pretrained Large Language Models in Embodied Artificial Intelligence	DOKLADY MATHEMATICS		embodied artificial intelligence, large language models, common sense knowledge, construction of action plans	A feature of tasks in embodied antificial intelligence is that a query to an intelligent agent is formulated in natural language. As a result, natural language processing methods have to be used to transform the query into a format convenient for generating an appropriate action plan. There are two basic approaches to the solution of this problem. One is based on specialized models intradive that principation instances of instructions translated into the generative method. The other approach relies on the ability of targe language models transless that and an appare translated from periods and end of the ability of targe language models transless and much and language which periods and end of the provides a detailed review of models based on the second approach as applied to embodied artificial intelligence tasks.	10.1134/51064562422060138	
Y. C. Kuo, Chen, Y. A.	The impact of chatbots using concept maps on correction outcomes-a case study of programming courses	EDUCATION AND INFORMATION TECHNOLOGIES		Program learning, Chatbot, Concept map, Online learning	With the development of science and technology, the demand for programmes has increased. However, learning computer programs in ord an exp task. It night care a significant impact on programming first increased processing and the beginning of the study. Hence, It is important to discover and correct them immediately. Chatbots are effective teaching aids, they can assist students in eliminating micronorphism. They also assist teaching in large classes. Therefore, this experiment use chatbots to assist teaching task and the student technical supports when teaching in large classes. Therefore, this experiment use chatbots to assist teames in the correction phase. We consider that learners who failed unit guarase might have microarbitantings in programming concepts. We believe chatbots can teach according to interful subsets and manufest transition teaching and the phase with consider that and mutual mutual mutual mutual microarbitantings in programming concepts. We believe chatbots can teach according to individual mutual mutual express their problems clearly. This experiment also adds concept maps to the chatbots of adiagua, to work as the dislogue structure for each hatchs. The maps help the chatbots to explored may day phaseliker register, of hearts. The hatbots the concept maps and as learners to relay with their answers. An ANCOVA test investiged students' records. Result showed the provides has been concept in the transfer students are not being able map chatbots has better correction effects than the other group using only concept maps.	10.1007/s10639-022-11506-6	
L. Laestadius, Bishop, A., Gonzalez, M., Illencik, D., Campos- Castillo, C.	Too human and not human enough: A grounded theory analysis of mental health harms from emotional dependence on the social chatbot Replika	NEW MEDIA & SOCIETY		Artificial intelligence, chabots, emotional dependence, grounded theory, mental health, Reddit, CONVERSATIONAL AGENTS, ATTACHMENT, RESPONSES, MACHINES, VIOLENCE, GENDER	Social chubch (SC) applications offering social companionship and basic therapy took have grown in popularity for emotional, social, and psychological support. While use appears to differ ment health benefic, the studies unack the potential for harms. Our grounded theory study analyzes mental health experiences with the popular SC application Replika. We identified mental health relevant posts made in the //Replika Redd Grounmuity betwees 2021 and 2021 (n = 552). We find evidence of harms, failitated via emotional dependence on Replika that resembles patterns seen in human-human relationships. Unlike other forms of factology dependency, this dependency is manded by role taking, whereby users field that Replika had its come needs and emotions to which the user must attend. While prior research suggests human-chubot and human-human interactions may not resemble each other, we identify social and technological factors that promote parallels and suggest ways to balance the benefits and risks of SCs.	10.1177/14614448221142007	
S. Luca, Clausen, M., Shaw, A., Krishnapillai, S., Adi- Baghfoury, H., Costain, G., Jobling, R., Aronson, M., Liston, E., Silver, J., Shuman, C., Chad, L., Hayeems, R. Z., Bombard, Y., Genetics Navigator Study, Team	Finding the sweet spot: a qualitative study exploring patients' acceptability of chatbots in genetic service delivery	HUMAN GENETICS		DREAST-CANCER SUSCEPTBUILY, COMPUTER- PROGRAM, HEALTH	Chabots, we-based antificial intelligence tools that simulate human conversation, are increasingly in use to support many areas of genomic medicine. However, parties preferences towards using dhatots across the range of indical strings are unknown. We conducted a qualitative study with individuals who underwent genetic testing for themselves or their dhild. Participants were acided about their preferences for using a classical but within the genetic testing for themselves or their dhild. Participants were acided about their preferences for using a classical but within the genetic testing for themselves (a, epsihaing result). Chabots were acceptable for moderately complex tasks where participants perceived a favorable return on their investment of time and energy. In addition to achieving its "weet stop," principants antiopated that her conflor with chabots would increase if the chabot was used as a complement to but not a reglacement for usual care. Participants were adjustive transformed and action to their instructive provides that her conflor with chabots would increase if the chabot was used as a complement to but not a reglacement for usual care. Participants were adjustive testing (a, access to a clinical) for eneth on adjusted by the chabits. This study provides thenly insplicit to some of the study with and perceived limitations of chabots for genomic medicine and can inform their implementation in practice.	10.1007/x00439-022-02512-2	
I. Mlakar, Verdonik, D., Majhenic, S., Rojc, M.	Understanding conversational interaction in multiparty conversations: the EVA Corpus	LANGUAGE RESOURCES AND EVALUATION		Corpora and Inguage resources, Speech Corpos, Multimodal corpus, Pragmatics, Conversional intelligence, DISCOURSE MARKERS, SPEECH CORPORA, LANGUAGE, GESTURES, ANNOTATION, SYSTEM	This paper focuses on gaining new inonledge through observation, qualitative analytics, and cross-modal fusion of rish multi- legered conversional features expressed using multiparty discuss. The outline exercit stress from the theory hat speech and co-speech gestures originate from the same representation, however, the representation is not solely limited to the speech production process. This is near the outline of the same representation is however, the representation is not solely limited to the speech production process. This is neared in our limited to a simulated annotation scheme and methodology which gests the opportunity to touch web life. speech and non-vebia life, avail carsivals a communicative interti components, however, still interconnected over a common timeline. To analyse this interaction between linguistic, paralinguistics, and non-vebia life. available and non-vebia life. Avail carsivals a communicative interti production process. The speech interconnected over a common timeline. To analyse this interaction between linguistic, paralinguistics, and non-vebia life. avail life. Avail carsivals a common timeline. To analyse this interaction between linguistic, paralinguistics, and converbial life. Avail life and the speech process and to help improve natural language generation in embodied conversational agents, high-gaality multimodal corpus, consisting of several annotation layers spanning syntak, PGS, dialoga acts, for do its kind for the Somenian language. Moreover, detailed care studies show the tendency of meads/course to conversational model and the corresponding information-rich consistent corpus can be exploited to deepen the understanding of multiparty discourse.	10.1007/s10579-022-09627-y	
N. Mulla, Gharpure, P.	Automatic question generation: a review of methodologies, datasets, evaluation metrics, and applications	PROGRESS IN ARTIFICIAL INTELLIGENCE		Automatic question generation, Natural language generation, Natural language processing	Question generation in natural anguage has a wide variety of applications. It can be helpful tool for chattook for generating interesting outsions as also for automating the process of question generation from a pace of text. Motion disordered ay systems, which are conversational, require question generation ability for identifying the user's needs and serving outcomes better, generating questions in natural language his now, a more evolved task, which also includes generating questions for an image or video. In this review, we provide an overview of the research progress in automatic question generation. We also greent a comprehensive literature review covering the dustrification of dustrian descriptions. The dustrian dustriant of question generation, and conversational question generation, when at discuss the dustrias and of paces. The same for soft users. Also were the same for soft users. Also were this is neview, towards applications of question generation and discuss the challenges in this field of research.	10.1007/s13748-023-00295-9	
T. D. Oesterreich, Anton, E., Schuir, J., Brehm, A., Teuteberg, F.	How can I help you? Design principles for task-oriented syeech dialog systems in customer service	INFORMATION SYSTEMS AND E- BUSINESS MANAGEMENT		Speech dialog system, Conversational agent, Design science research, Design principles, Customer service, Experiment, SciENCE RESEARCH, USER EVERENCE, SEL-DISCLOSURE, SOCIAL PRESENCE, METHODOLOGY, TECHNOLOGY, CHATBOTS, ANATOMY, AI	Organizations are increasingly delegating customer inquiries to speech dialog systems (505); to save personnel resources, likewere, customers ober regort functions when interacting with SSS due to pool decigend solutions, design knowledge for SDSs in customer service remains durive. To address this network, gap, we employ the decige strease approach and device a decign theory for SDSs in customer service. The design heavy, including 14 regularements and five design principles, draws on the principles of dialog theory and undergoes validation in three iterations using five hypotheses. A summative evaluation compristing a two-paine experiment with USD participanty delegator busiter granting the user experience of the artiflect. This study contributes to design knowledge for SDSs in customer service and supports practitioners striving to implement similar systems in their organizations.	10.1007/510257-022-00570-7	

N. Patel, Nagpal, P., Shah, T., Sharma, A., Malvi, S., Lomas, D.	Improving mathematics assessment readability: Do large language models help?	JOURNAL OF COMPUTER ASSISTED LEARNING		GPT-3, mathematics assessment, readability, text PROLEMS, TOT, XY PROLEMS, TOT, XY COMPRETENSIBILITY, COMPRETENSIBILITY, COMPRETENSIBILITY, RULES	BackgroundReadability metrics provide us with an objective and efficient way to assess the quality of educational texts. We can use the readability measures for finding assessment items that are difficult to read for a given grade level. Hard-to-read and read the second statement of the second second second second second statement of the second statement were transferred to the second second second second second second second statement takes and the second statement of the second second second second second statement takes and second statement second second second second second second statement tests can create equity issues for students who are relatively new to the language of assessment . Lass readable test larms can also affect the assessment's construct validity of math assessment items. Method: we analyzed 250 test items from grade 3 to 5 of registry and open-second constructions the GFT 24 all ystered second second second second problems. We used text prompts and the few-shot learning method for the simplification task. Results and ConclusionO. Barden and and the second seco	10.11111/jcal.12776	
R. Pillai, Sivathanu, B., Meari, B., Kaushik, N.	Students' adoption of AI- based teacher- bots (T-bots) for learning in higher education	INFORMATION TECHNOLOGY & PEOPLE		T-bols, Mixed-method, Personalization, Interactivity, Anthropomorphism, TAM, Perceived intelligence, PLS- SEM, TECHNOLOSY ACCEPTANCE MODEL, MIXED- METHODS RESEARCH, Bis DATA, INTERTION, ROBOTS, ANTECEDENTS, INFORMATION, CHATBOT	Purpose purpose of this paper is to investigate students' adoption intention (ADI) and actual usage (ATU) of antificial intelligence (A)-based toxeler bots (T-bots) for learning using the technology adoption model (TAA) and concert specific variables. Design/methodology/approachA mixed-method design is used wherein the quantitative and qualitative approaches were used to approximate the adoption of T-bots for learning. Overall (J-BB students) adoption (Tab) and concert specific variables. Design/methodology/approachA mixed-method design is used wherein the quantitative approaches were used to approximate and approximate the adoption of T-bots and the specific of the student and the variable and the variable of the specific of the student of the student and the variable of the student of the variables. The student addition and preveded method the student and the variables and the variables and the variables of the student of the variables. The student addition and the student addition and preveded method the student addition and the students after the students and the variables after the students of the variables of the student and the variables after the student addition provide personalization. Originally valuations and energies and designers of T-bots media to ensure that is shift for the education for the introduction original valuation. The student were there advarded the factors after the students of the the is neglitative percention. The student technology is the education original valuation. The student were advarded the factors after the students and the student students the student student student student student and the student students after the student information to at due to the student student student student students after and students and examples and examples the indication after advardance and the laters after the ducation provide personalization. Originally valuation to the student student student students after advardance a comprehensive examples to the advardance advardance advar	10.1108/ITP-02-2021-0152	
A. Reboud, Harrando, I., Lisena, P., Troncy, R.	Stories of love and violence: zero-shot interesting events' classification for unsupervised TV series summarization	MULTIMEDIA SYSTEMS		Summarization, Moment detection, Zero-shot classification, Knowledge graphs, Face recognition	In this paper, we propose an unspectived approach to generate TV series summaries using screenplays that are composed of dialogue and careirs total descriptions. In the Lat years, the careation of large langue models has enabled aren-shot test dassification to perform effectively in some conditions. We explore if and how such models can be used for TV series summarization by condicing experiments with average test particular screenses being that interesting moments in narratives are related to the presence of interesting events, we choose candidate labels to be events representable of two genres (crime and scap opera) and we obtain competitive results with respect to the state-of-the art baseline.	10.1007/s00530-022-01040-3	
K. Ryong, Lee, D. H., Lee, J. G.	Chatbot's Complementary Motivation Support in Developing Study Plan of E- Learning English Lecture	INTERNATIONAL JOURNAL OF HUMAN- COMPUTER INTERACTION		SELF-DETERMINATION THEORY, PSYCHOLOGICAL NEED SATISFACTION, INTRINSIC MOTIVATION, EXTRINSIC MOTIVATION, STUDENTS MOTIVATION, STUDENTS MOTIVATION, AUTONOMY SUPPORT, TEACHERS, ORIENTATIONS, ATTRACTION, ENGAGEMENT	The present study investigates the effects of a chatter's motivation support style on the learner's experience and intention to continue the study in the context of online liquids hetcurs. Severy-nine undergraduates student's were recurrent of mon a large private university in Seoul, South Korea, and assigned to one of three learning plan development groups: chevelop a plan alone, automomy support (i.e., a chattos stimulanting intrinsis: motivation), or contral support (i.e., a chattos formating estimation extinctio), and by doing so, the persent study created a chattosh nutbed and non-matched motivation support conditions in learning plan development. The two support strategies were compared with a control condition types (i.e., learners' own plan making), and the results suggest that a clubed with anon-matched motivation strated effection endivision for event share. A solution with a solution condition in effective effective endivision by the results strategist and the strategist strategist and the strategist increases learners effective. The present study provides nevel insign and nevel share a chattosic control support learning infinitativi movies the learning experiment. The present study provides neve insight into improving user evaluation by strategically differentiating a chattosit's conversational style and a user's characteristics.	10.1080/10447318.2022.2163786	
P. Sindhu, Bharti, K.	Influence of chatbots on purchase invtention in social commerce	BEHAVIOUR & INFORMATION TECHNOLOGY		Chatbot, ingratiation, inspirational appeal, social commerce, social preserce, ulterior motives, INFLUENCE TACICS, PERSUASION KNOWLEDGE, BRAND ENGAGEMENT, SALESPERSON, CONSIMER, INFORMATION, PERCEPTIONS, TECHNOLOGY, TRUST, ORGANIZATIONS	The enserved investigates the effects of challod-cellenered websit (inspirational appeals) and non-webbil (inspirational) cause on contenere' particular intentions on social ommercie page (tubu) ones. The enservation wing a multi-method genorab also investigates the role of social presence and laterior motives in explaining the effects of the challed delivered human-hile cars on contonnere' particular intentions (tubu) two). Study one employs an experiment, followed by a structural equation model in study two: The results of study two enables the researchers to transplate the results of study one and to particular barries and the structural equation model in study. The research report that (1) majoritational appeal delivered by a structural equation model in studes. The research report that (1) majoritational appeal delivered by a charge transmission of ingestation delivered using the transmission of the structural explanation in the survey for the two presents one of the first attempts to explore the influence of ingestational depend and ingestation delivered lowage that barries on <i>i</i> -commerce parchase intentions. The findings of the study provide managerial insights to social commerce pages that could help engage customers and discumment the attribution of uterior motives while making a sale.	0.1080/014929x 2022 2163188	
U. Tandon	Chatbots, virtual- try-on (VTO), e- WOM: modeling the determinants of attitude' and continued intention with PEEIM as moderator in online shopping	GLOBAL KNOWLEDGE MEMORY AND COMMUNICATIO N		Chattotic, Online shopping, Virtual try-on technology, Virtual try-on technology, evOM, histitutional mechanism, Interactive communication SciEF- DETERMINATION, SOCIAL MEDIA, PERCEVED EFFECTIVENESS, CLISTOMER SATISFACTION, IMPACT	Purposeline purpose of this study is to develop an empirical model by understanding the relative significance of interactive technological forces, such a schools, with all typon technology (VD) and e vord of model) (#VD) and e vord of model) (#VD) and e vord of model is the marketing experiences among consumes. This study also validates the moderating role of the pervised effectiveness of e- commerce institutional mechanismic (PEEM) as a moderator between attitude and continue linteration. Design/interbodologi/approach/obata were concidented for through personal visits and an online survey. The link to the survey questionnaire was started on effect and media platforms and vocal intervencing lists. A total of 35 crossones obtained in the online and offlime modes were considered for this study, resulted the PEEM id on onderate the relationship between attitude and ordinized interflix) onliginality/value/sting the self-determination theory and behavioral reasoning theory as theoretical famewers, this study is milled endors in the soring control to empirically values interactive interactive to empirically values interflix endors. The self-determination theory and behavioral reasoning theory as theoretical famewers, this study is maintail endors on the online slopping control to empirically values interactive forme- line chalters, this study is maintail endors. The line slopping control to empirically values interactive forme- sing chalters, this study is an initial endors. The line slopping control to empirically values interactive forme- line chalters, VTO, e-WOM and PEEM as moderators to general values interactive forces, in turn, at as significant contributors to online shopping satisfaction.	10.1108/GKMC-06-2022-0125	
Q. Xia, Chiu, T. K. F., Chai, C. S., Xie, K.	The mediating effects of needs satisfaction on the relationships between prior knowledge and self-regulated learning through artificial intelligence chatbot	BRITSH JOURNAL OF EDUCATIONAL TECHNOLOGY		artificial intelligence, K-12 education, priro knowledge, self-determination theory, self- moly and theory and theory and the MOTIVATION, STRATEGIES, MOTIVATION, STRATEGIES, MOTIVATION, STRATEGIES, MOTIVATION, STRATEGIES, MOTIVATION, STRATEGIES, MOTIVATION, STRATEGIES, ADDIEVEMENT, ACCEPTANCE, ENGAGEMENT	The asthopomorphic characteristics of artificial intelligence (A) cap poolde a positive environment for self-regulated learning (B3). The factors aftering addecence: 'Self through Al technologies remain unclear. Inited Al and displanny knowledge my affect the students' motivations, as explained by self-determination theory (SDT). In this study, we examine the mediating effects of needs statistication in SOT on the relationship between student's previous tandents' gradient students' and the students' motivations, as explained by self-determination theory (SDT). In this study, we examine the mediating effects of needs statistication in SOT on the relationship between students' gradient students' previous knowledge of display hand their Al howledge directly affected the rST. With the charbox, and that studying the needs competence mediated the relationship between both insukeloge (A and regista) and SDL, but related uses at discusting competence mediated the relationship between both insukeloge (A and regista) and SDL, but related uses at discussion competence mediated the relationship between both insukeloge (A and regista) and SDL, but related uses at discussion competence mediated the relationship between both insukeloge (A and regista) and SDL, but related uses and the students with relatively lower levels of Englin proficiency. We sugges that teachers can use conversational databots for knowledge consolitation in this poly of assistication is Self-determination theory (SDT) can explain the directure englisting the regustant at leads y from between both study students with relatively how works of Englin proficiency. We sugges that teachers can use conversational databots for sourcedge consolitation in SEI-determination theory (SDT) can explain the directure the student is adaptively movel process regulated disciplinary knowledge and SL, using an AL conversational databot. Sources's previous a knowledge of SLT. Technical and disciplinary knowledge and SL using an AL conversational databots for involvedge consol	10.1111/bjet.13305	
Q. Xia, Chiu, T. K. F., Chai, C. S.	The moderating effects of gender and need satisfaction on self-regulated learning through Artificial Intelligence (AI)	EDUCATION AND INFORMATION TECHNOLOGIES		Self-Regulated Learning, Self- Determination Theory, Artificial Intelligence, K-12 Education, AI Knowledge, Chatbot, TECHNOLOGY ACCEPTANCE, AUTONOMY SUPPORT, INFORMATION- TECHNOLOGY, MEDIATED COMMUNICATION, INTRINSIC MOTIVATION, USER ACCEPTANCE, STUDENTS, ENGAGEMENT, CHOICE, SCHOOL	Artificial intelligence (AI) has the potential to support self-regulated learning (SRI) because of its strong anthropomorphic divartestristic. Nevere- most studies of all neclasticina have focused on cognitive contones in higher deviation, and little research has examined how psychological needs affect SRI, with AI in the K-12 setting, SRI is a self-directed process driven by psychological factors. In data one explained by the three basic needs of self-deterministic three/SRI is a self-directed process driven by psychological factors. And an explained by the three basic needs of self-deterministic three/SRI is a self-directed process driven by psychological factors. But anong Grade S-guidents. The results indice that grid psychose more need support than hoys. In predicting SRI, stitulation of the need for autonomy and competence is moderated by both gender and AI knowledge, whereas stitulation of an eleven strong strong and strong-termine on variability and autonomy and competence more strongly predicting SRI. with a clastic. The findings have implications for both teacher instruction and the design and devinement of intelligent learning environments.	10.1007/s10639-022-11547-x	
B. Zarouali, Araujo, T., Ohme, J., de Vreese, C.	Comparing Chatbots and Online Surveys for (Longitudinal) Data Collection: An Investigation of Response Characteristics, Data Quality, and User Evaluation	COMMUNICATIO N METHODS AND MEASURES		OPEN-ENDED QUESTIONS, CONVERSATIONAL AGENT, PERCENED SECURITY, NONRESPONSE RATES, COGNITIVE-LOAD, SURVEY MODE, WEB SURVEYS, R PACKAGE, RELIABILITY, TRUST	As chatboxs are pairing more popularity than ever, they have recently been considered as interesting tools for survey administration to accid science research. To esopher this idue, we investigated the accid southout here are differences in response characteristics and data quality between a rational, web-based survey and a conventional, chatbox-based survey (which we integrated in an instant messaging app). In addition, we commend into how they here are supported in a missant messaging app). In addition, we commend into how respondents outlands to the survey and a conventional design, we also explored how response characteristics and data survey. On the contrary, the web survey often seemed to generate more favorable response characteristics and data quality. Finally, when it comes to user perceptions, we found that the chatbox simpli be better survey administration tools than we income to user perceptions, and incline dividence that survey has evaluated less favorable in terms of perceive enjoyment, usefulnes, and security. Based on these results, we draw conclusions about whether chatbots can be considered as valid alternatives for traditional web survey methods.	10.1080/19312458.2022.2156489	
Y. Zhu, Zhang, R. T., Zou, Y. G., Jin, D.	Investigating customers' responses to artificial intelligence chatbots in online travel agencies: the moderating role of product familiarity	JOURNAL OF HOSPITALITY AND TOURISM TECHNOLOGY		Travel chatbot, Human- computer interaction, Information quality, SOR paradigm, Cognitive consistency theory, Tourism internet marketing, ???????, ????, SOR??, ??????, TRUST, INTENTION, TECHNOLOGY, ACCEPTANCE, MODEL, RISK	Angeodrifts again time to examine how consumers precedence of antificial intelligence (A) charbos influence individuals' compline and enrollow states and the transformation literations via - which instrumes langering (CPA). Design/interholdolog/approach The survey sample comprised 566 customers who had experienced the use of nearer AI charbos in Chara surge a combination of online may ample comprised 566 customers who had experienced the use of nearer AI charbos to test the hypotheses. Findingsthe results nevelate literations and information quality, as AI charbos stimulus, agrintCarathy increase potential locations' trust and particulate intention. Furthermore, the findings indicated that actionnes with high product finalities resulted preserves theory, this study theoretically validates the applicability of the stimulus- organismic regional maney of and a structure trust and product selections with used in number applicability of the stimulus- organismic regional maney of and a structure trust and product selections with used in number applicability of the stimulus- organismic regional maney of and a structure applicability of the stimulus- d human-computer interaction and information quality or customer response within OTA settings.	10.1108/JHTT-02-2022-0041	

M. McKillop, South, B. R., Preininger, A., Mason, M., Jackson, G. P.	Leveraging conversational technology to answer common COVID-19 questions	Journal of the American Medical Informatics Association	2021	28	2	4 850-855	chatbot, article, conversation, coronavirus disease 2019, employer, government, health care utilization, human, medical information, organization, pandemic, time factor	The rapidly evolving science about the Coronavirus Disease 2019 (COVID-19) pandemic created unprecedented health information needs and dramatic change is nocicies globally. We describe a platform, Watson Assistant (WA), which has been used to develop conversitional agents to deliver (COVD-19) related information. We distribute the use cases and implementations during the early pandemic and measured adoption through a number of user, messages sent, and conversational agents (e) parts of interactions between users and agent). Thirty-sense institutions in 9 countris deployed COVID-19 conversational agents with WA between Murch 30 and August 10, 2020, including 24 governmental agencies, 7 employers, 5 provide organizations, and H hasth plan. Che 6 a million message were delivered through the platform. The mean number of conversational turns per session ranged between 1.9 and 3.5. Our egerience demonstrates that conversational targets can be rapidly deployed for pandemic response and are adopted globally by a wide range of users.	10.1093/jamia/ocaa316	https://www.embase.com/usarch/results?subaction =viewecord&id=1202164606&from=export, http://dx.doi.org/10.1093/jamia/ocaa316
	Legal Studies: Do androids dream of electric lawyers? The ethics of legal chatbots	Alternative Law Journal	2022	47	2	4 314			10.1177/1037969X221133273	https://www.scopus.com/inward/record.uir?eid=2- s2.0- 85140975006&doi=10.1177%2/1037969X2211332 73&partner/D=40&md5=31ae1104&d0a0b5034eac 1fc5bdbb4cc
T. Adewumi, Liwicki, F., Liwicki, M.	Vector Representations of Idioms in Conversational Systems	Sci	2022	4	4	4	comersational systems, dialog systems, idoms, vector representation	In this dudy, we demonstrate that an open-domain conversational system trained on idioms or figurative language generates more fitting responses to prompts containing idioms. Idioms are a part of everying speech in many languages and a roots many cultures, but they pose a great challenge for many natural language processing (NEP) systems that involve tasks such as information criterious (IB), machine translation (MT), and conventional antificial intelligence (AL) we utilised the Potential idiomatic Expression (PRE)-English idiom corpus for the two tasks that we investigated: classification and conversation generation. We alreaded a state-of-the-an [CSO/T avail of a 987 macro F1 score on the classification tasks by using the 507.15 model. We experimented with three instances of the 507A dialogue model—the bilague Generative Pre trained Trainformer [DialoPT)—for convestion generation. Their performances we evaluated by using the advants: entities, prepieshy, and a human evaluation. The results aboved that the model trained on the idiom corpus generated more fitting responses to prompts containing idiom 77.16 or the time in comparison with a similar model that was not trained of the idiom corpus. We have contributed the model checkpoint/demo/code to the HuggingFace hub for public acces. © 2022 by the authors.	10.3390/sci4040037	http://www.scopus.com/inward/record_uir?eids2- 22-0 8514461208.doi=10.3390%2/5ci40400037&partne mi=0&8.md5=811eb55c8c92.cd787bee3e30da84228 d
F. Agbavor, Liang, H.	Artificial Intelligence- Enabled End-To- End Detection and Assessment of Alzheimer's Disease Using Voice	Brain Sci	2022	13	1	1	Alzheimer's disease, data2vec, dementia, end-to-end, large language models, speech and language	There is corrently no simple widely available screening method for Abshimm's disease (AD), partly because the diagnostic of AD is complex and physical involves segreving and sciencing involves tests not commonly valiable catable highly specialized clinical attrajes. Here, we developed na artificial intelligence (AI)-powered end-to-end-system to detect AD and predict Its seemity sincely for works: recenting AL the core of our system is the pre-trained distance model. He first high-performance self-significant tests are appreciable on the core of our system is the pre-trained distance model. He first high-performance self-significant tests for speech, vision, and test. Our model was internally evaluated on the ADReSSO description of the Covick Theff picture, and externally validated on a test dataset from Demensibility. The AI model can delated AD with average are any out the truct vision (OI dBA and DBSS) with out of the dataset set of the truct the subject's calibrated (Income-Linemekow goodness of Hig p-avales 0.9510). Morrower, the model can reliably predict the subject's compline testing science solely based on any works recentings. Usual sub-dominant test must be resultive than subject the subject's compline testing science solely based on any works recentings. Usually demonstrates the feasibility of using the Apowered end to each model for early AD alignosis and severity prediction directly based on wice, showing its potential for screening AL/heimer's disease in a community setting.	10.3390/brainski13010028	
S. Barykin, Mehta, R., Verghese, J., Mahajan, S., Bozhuk, S., Kozlova, N., Vasilievna Kapustina, I., Mikhaylov, A., Naumova, E., Dedyukhina, N.	Consumers' behavior in conversational commerce marketing based on messenger chatbots	F1000Research	2022	11			adut, artice, artificial intelligence, chattot, consumer, conversation, digital technology, female, human, human experiment, marketing, natural language processing, onlinei shopping, organization, structural equation modeling, trust	Badground: The increasing penetration of amarphones and the internet in developing countrics caused the rise of eretal. Conversitional connects is highly increasing win interaction through messengers. To cartact the benefits of both trends, comparise have adopted messenger chatbots, These chatbots use Artificial intelligence and natural language processing to give like responses to the customer and assist collines lopping on the messenger interface. This research aim to discover the factors that affect the use of messenger chatbots and their influence on attitude and behavior intention. Methods: The research methodology includes The Technology Acceptance Model (TAMW) with the variable of perivedu use/lines, pencievad use and use, consumer trust, and anthropomorphism. The authors used an online survey for collecting the responses from 192 regondents and analyed structural equation modeling. Results: Customer trust has shown the most desire influence outcomer attitude followed by Perceived Use/lines, Pencived Ease of Use. Also, the use of chatbots to make online hopping faster significantly files: the use of meanger chatbots for online shopping in the fault. The authors captore various factors resulting in consumes' favor of accepting chatbots ta an interface for m-commerce. Conclusions: The findings indicate that organizations should design strategies to improve interaction that the customer by developing messeinger chatbots for more trusting conversations. Further research could include a theoretical digital marketing approach to conversational commerce based on anthropomorphic digital technologies.	10.12688/f1000research.122037.1	http://www.embase.com/sarch/results/bub/ctom/ viewereck/dki-clos344/5384/non-export, http://dx.doi.org/10.12688/f1000research.122037. 1
N. Ben- Shabat, G., Meimis, B., Ben Joya, D., Sioma, A., Kiderman, D., Shabat, A., Tsur, A., M., Watad, A., Amital, H.	Assessing data gathering of chatbot based symptom checkers - a clinical vignettes study	Int J Med Inform	2022	168		104897	Humans, *CCVID- 23/daproxis/epidemiology, Pandemics, Quality of Health Intelligence, Chattoch, Computer-sustant diagois, Computer-sustant diagois, Mesical interview, Symptom Ancketz, Telementalin, Friage, competing financial intervests, orgenoan relationships that could have appeared. to influence the vork reported in this paper.	BACKGROUND: The burden on healthcare systems is mounting continuously owing to population growth and aging, overuse of medical services, and the recent CUNP 13 pandemic. This overball is also acaing reduced healthcare growthealth and outcomes. One solution gaining momentum is the integration of intelligent self-assessment took, known as symptom-checkers, into healthcare providers systems. To the back patient of our howdege, no tody so far has investigated the data-gainering capabilities of these took, which represent a crucial resource for simulating doctors' salls in medical-interviews. OBECITIST: The goal of this study was to evaluate the data gathemic plantion of correctly validate dutatod transmont-checkers. MITCON: We evaluated partitionet findings for each case was 31.8.2.6.8. The vignettes were externed into the gathemic has 300 MITCON: We evaluated partitionet findings for each case was 31.8.2.6.8. The vignettes were externed into the gathemic potenties and the infindings), and efficiency-rates genetizents findings retrieved ou of the number of externises asked of data gathemic, 20.10.3.0.3.10 rail patterns. RESULTS: The overall recall rate for all symptom-checkers with simulated the role of the patient. For each stress the overall rate of the number of extensions asked of data gathemic, and compared them between the platforms. RESULTS: The overall recall rate of all symptom-checkers was 0.312,2807/12.125.5 StO 2.3.9 (or adasent finding. Among the symptom-checkers, Kahun platform had the highest recall rate with 0.3145/0369595 StO 2.4.7.5.4.5., Out of 2.4.7.8.5.7.5.7.5. The overall rate of all symptom-checkers was 0.314,2805/87.5.5.5.7.5.5. The overall rate symptom scheckers from from Your.MD 0.6955 StO 10.5-0.7.3.1. ODAGUSDON: The data gathering genomenate of currently available symptom checkers is questionable. From among the tools available, khun demonstrated the best overall performance.	10.1016/j.ijmedinf.2022.104897	
C. T. Berdahl, Henreid, A. J., Pevnick, J. M., Zheng, K., Nuckols, T. K.	Digital Tools Designed to Obtain the History of Present Illness From Patients: Scoping Review	Journal of Medical Internet Research	2022	24	11	1	caregiver, Cnahl, digital technology, electronic health record, Emake, Jeahth care quality, Juman, medical history, Medline, outcome assessment, patient history, Medline, outcome assessment, patient physiktifor, parker, usability, Web of Science	Background: Many medical conditions, perhaps 80% of them, can be diagnosed by taking a thorough history of present illness (MP). However, in the clinical stituting, attuational factors such as interruptions and time pressure may cause interactions with patients to be bired and fragmented. Do exision for improving dimiciani ability to collect a thorough their and maximize efficiency and quality of care could be to use a digital tool to obtain the HP before face-to-face evaluation by a dimician. Dispersive David State was to iterity and characterise digital coles to tab table bear bear patients to be bired relations of the dispersive state of the encounter. We also stught to describe a conducted a scoregine relative suit to dispersive the dispersive state of the encounter. We also stught to describe a conducted a scoregine relative state of the dispersive state of the encounter. We also stught to describe a conducted a scoregine relative state of the dispersive state of the encounter. We also stught to describe a score dispersive state present this information to clinicans before a face-to-face encounter. We also stught to describe the dispersive state of the dispersive state of the dispersive state of the encounter. We also stught to describe a score dispersive state of presenter performed full-text relevance at the dispersive state of the encounter. We also study to dispersive scored titics and abarts for relevance performed full-text relevance at the dispersive state of the tools in the tools and through stated conversions with tool creators. Result: We identified 18 tools meeting the inclusion outer and a 21 (27%) is used furminity (dispersive) target stategorises and through 34(5) tools did not clineship extra dispersive) at the conversive state at the analysis of the cosh seven than all (1018), Scoly of the tools versive of at side through and 21 (27%) is used furminity (dispersive) target stategorises at the scole state state dispersive of the dismet dispersive of at the disters of the dispersive of athere	10.2196/36074	https://www.embase.com/usarch/results?ublaction =viewrecord&id=12021954890&from=export, http://dx.doi.org/10.2196/36074
R. Bhagyalaksh mi, Maria, E. F.	ARTIFICIAL INTELLIGENCE- BASED HRM TECHNOLOGICAL TOOLS, IN HRM DECISION	Journal of Pharmaceutical Negative Results	2022	13		937-946	article, artificial intelligence, employee, human, human experiment, language, manager, molecular recognition, robotics, software	Artificial Intelligence plays an indispensable role in enabling human capabilities in understanding, reasoning, planning, communication, and perception. The automation of A abilities creates new opportunities in Human Resource Development. Chattor interfaces heigh the multitability process in HRM which includes shortisting, linterviews, and training programs. It is reduces the burden of the HR manager as well as effectively uses the organization's resources efficiently. The present study highlights Al-malabel eHRM technologies application in various software comparies in Demai of Ur. The sample is collected from employees working in the T sectors using a convenient sampling method. The key focus of the study is on examining the Ababadel HRM Technology Tools dataped by Rm anagers. The versits show 12 Ababadel HRM Technology Tools have been reduced into three dominant factors namely Machine Language and Automation Factor (MLAF). Data Analytics and Acknowledgement Tacior (JAAA), and Bobics and Bio Recognition Factor (RBRF). It has been observed that Al-based eHRM technology has been used in every process of recruitment.	10.47750/pmr.2022.13.510.106	http://www.embase.com/search/results?ublaction =viewecord&id=1022618509&from=export, http://dx.doi.org/10.47750/pnr 2022.13.510.106
M. Biswas, Suri, J. S.	Deep learning and augmented radiology	Multimodality Imaging, Volume 1: Deep learning applications	2022			1.1-1.21		The effect of deep learning (DL) in today's world is nothing less than dramatic. From self-driving cars, to performing havadrous tasks on inhoppitable terrains such as the seaked, to simple charbots giving directions on anobile phone, one or dialy less how been affected. The cause of this massive development within very few years can be credited to the rapidly decreasing cost of hardware and the availability of operacurs offware. The hardware within very few years can be credited to the rapidly decreasing cost of deliver fast and better services to patients. The volume of publications of DL applications in hardhure has exceeded all other domains, in particular in radiology, where one deals with medical images. In this respect, this chapter provides an introduction to DL for radiologists, scientists, academiciane, etc. © IOP Publishing Ltd 2022. All rights reserved.		https://www.scopus.com/inward/record.uri?eid=2- s2.0- s2.16314528055&partnerID=40&md5=db06ddc0a24d 31bd3145al4fd3821bb9
J. Blasco, Roig- Casasis, S., Igual- Camacho, C., Diaz-Diaz, B., Pérez- Maletzki, J.	Conversational Chatbot to Promote Adherence to Rehabilitation After Total Knee Replacement: Implementation and Feasibility	Archives of Physical Medicine and Rehabilitation	2022	103	12	2 e125	adult, chatbot, clinical article, conference abstract, controlled study, education, exercise, feasibility study, nearbatter, burgan, up, home rehabilitation, hospital patient, human, make, natural language processing, outcome assessment, outpatient, physiotherapy, randomized outcoiled trail, enabilitation, smartphone, total knee arthroplasty, unversity hospital, usability	Reserch Objectives: To design and implement a Chatbot that interacts with patients via instant messaging to supervise domicilary rehabilitation and increase adherence. To conduct a feasibility study. Design: Pilot randomized trial (November 2021 to March 2022). Setting: To uso wiresity hospitals. Obspitetion and domicilary rehabilitation. Participant: 18 individuals, bebord 70, who underwent primary total here replacement, hud a personal smartphone, an instant messaging application installed, familiar with its uso: 10 accesses pail and able to consent. Interventions: Patients underwent surgers and followed standard impatient (-2 days) and outpatient (-2 to 4 weeks after surgery) physiotherapy care. The control group received the subculture Manual March 10 accesses of the obligation instatut messaging application installed, familiar with its use: Interventions: Patients underwents surgers and followed standard was supervised via Chatbot, with automated interactions including messages to inform (e.g. about the disease, importance of compliance, programs), motivater, remine values (march 2000 etc.). The control group received the sachieved adherence (PBOS de sacions), A for fassibility, retruitment rata was good but lower than expected (75% of Insteid agreed); retention was good (>55%). Overall, the users reported that the tool was easy our use; hower?, nonumicates via instant messaging service has been successfully developed. The preliminary setsement sugges that the tool mays be used (>55%) (>108/04 dassion3.). Overall, the successfully developed. The preliminary setsement sugges that the tool mays by output to increase compliance with in-home rehabilitation, and warrants a randomized clinical tria to determine the clinical impact. Author() Disclosures: Thin result is part of the project Project 135282A-60. (Moled and supported by MOI/AR(2)(1012032). The funder played no role on the design or results of this work.	10.1016/j.apmr.2022.08.764	http://www.embase.com/seard/results?ublaction =viewrecord&id=12021304291&from=export, http://dx.doi.org/10.1016/j.apmr.2022.08.764

L. Carmichael, Poirier, S. M., Coursaris, C. K., Leger, P. M., Senecal, S.	Users' Information Disclosure Behaviors during Interactions with Chatbots: The Effect of Information Disclosure Nudges	APPLIED SCIENCES-BASEL	2022	12	24		chatbot, Information disclosure, information disclosure, privacy, human- chatbot interaction, SELF- otabot interaction, SELF- DISCLOSURE, E-COMMERCE, PRIVACY NOTECS, ONLINE, MODEL, PARADOX, PRODUCT, PERSONALIZATION, MACHINES, INTERNET	Drawing from the tention between a company's derive for outcome information to tailor experiences and a consume's need for privax, this study aims to test the effect of no information disclours endpairs on user's information disclours behaviors. Whereas previous literature on user-chatbol interaction focused on encouraging and increasing users' disclourses, this study inforduce measures that make users conscions of their disclourse behaviors to be waited their study and the study chatbols. A within-subjects laboratory experiment entailed 19 participants interacting with chatbols, responding to pre-tested questions enaitivity negatively impacts users' information disclourse to chatbols. Moreover, this study suggests that adding a semitivity signal-presenting the level of associativity of the question saked by the chatbor-findences users' list study suggests that adding a behaviors. Finally, the theoretical contributions and managerial implications of the results are discussed.	10.3390/app122412660	
D. Castelvecchi	Are ChatGPT and AlphaCode going to replace programmers?	Nature	2022				Machine learning, Mathematics and computing		10.1038/d41586-022-04383-z	
E. Castilla, Escobar, J. J., Villalonga, C., Banos, O.	HIGEA: An Intelligent Conversational Agent to Detect Caregiver Burden	International Journal of Environmental Research and Public Health	2022	19	23		chatbot, mobile health aspeciation, article, attitude assessment, caregiver, caregiver burder, digital technology, human, interpersonal comunication, medical literature, mental disease, mental health, preliminary data, process technology, program evaluation, proof of concept, psychologic test, psychologic test, psychologic test, social media	Mentah hashth diorders increasingly affect people worldwide. As a consequence, more families and relatives find themselves acting as caregiver. Most often, these are untrained people who perference londers, abadroment, and often develop gas of depression (i.e., caregiver burden syndrome). In this work, we present HIGEA, a digital system based on a conversational agent to help to decit caregiver burden. The conversational agent naturally embeds psychological test questions insi informat conversations, which aim at increasing the adherence of use and avoiding user bias. A proof-of-concept is developed based on the popular Zint Test, which is widely used to assess caregiver burden. Preliminary results show the system is useful and effective.	10.3390/jierph192316019	http://www.embase.com/seard/results?ubation www.ewcodkie/cu2020302698/eme-export, http://dx.doi.org/10.3390/ijerph192316019
L. S. Castro, Baracas, L., Hashioka, G., Bonadio, C., Hachul, H., Santos-Silva, R., Poyares, D.	REAL WORLD EFFICACY OF A MULTICOMPONE NT CBTI PROGRAM WITH CHATBOT AND AI	SLEEP MEDICINE	2022	100		\$135- \$135				
E. S. Chen, Zhao, H., Li, B., Zha, X. P., Wang, H. Q., Wang, S.	Affective feature knowledge interaction for empathetic conversation generation	CONNECTION SCIENCE	2022	34	1	2559- 2576	Emotional features, emotional leaicon, commonserie knowledge, Empatheticibalogues dataset, empathetic conversation generation	A popular chatbot can generate natural and human-tike responses, and the encutal technology is the ability to understand and appreciate the encoding and demands expressed from the precised to enclose the characteristic dialogue generation models only specialize in commonsense and neglect emotion, which can only get a one-sided understanding of the user's sharolin and marks the model unable to express motion better. In this paper, we prope a none diffective feature localized emotions and examed starts, to enhance response generation performance, which enriches conversation history to dollari emotional interactive context to learn higher-level affective interaction information and doll' the emotional start effective cative context exceder to learn higher-level affective interaction and doll the emotional start encoders and emotions accuration. The emotional focuras as to well equire the suble differences of the user's emotional expression, and the commonsense howledge improves the representation of affective approaches (or exponse) with higher emotion accuracy and stronger empathetic ability compared with baseline model approaches for empathetic reponse generation. The distribution starts to take and generates multiple responses with higher emotion accuracy and stronger empathetics ability compared with baseline model approaches for empathetic reponse generation.	10.1080/0954009120222134301	
D. K. Chhadi, Patil, D.	Artificial Intelligence Versus Conventional orthosis	Journal of Pharmaceutical Negative Results	2022	13		2898- 2901	foo orthois, hip-knee-anke- foo orthois, article, artificial intelligence, autonomous web/de, dinical practice, comparative study, feedback, system, health care, health data, human, intestine endoscopy, patient coding, pattern recognition, physiotherapist,	We've winnessed remarkable development in the domains of robotics and artificial intelligence during the previous decade. Involution have been looking for methods to merge people and hoots, and in creating case, to eliminate humans entirely. We're sening delivery drones, scurity robots, and other robotics applications. Chitbots, self driving cars, and speech recognition have all made important advances in AL Predups most importantly, advancements in articlal intelligence and robotic technology in health care are boosting patient treatment and care. Physical therapy is one field that is making use of both technologies, with a special emphasis on those who have movement difficulties as a result of neurological damage.	10.47750/pm 2022 13 506 376	http://www.embase.com/seard/risults?ubation viewrecordiki-co218317388/nemeport, http://dx.doi.org/10.47750/pmr2022.13.506.376
T. Clecierski- Holmes, Singh, R., Axt, M., Brenner, S., Barteit, S.	Antificial intelligence for strengthening healthcare systems in low- and middle- income countries: a systematic scoping review	ng Digital Medicine	2022	5	3		cost effectiveness, Decision support systems, Isebilit care, Search regime, Al Technologies, Applications of Al, Globa health, Grey ilterature, Healthcare systems, Literature search, Low income countries, Middle income countries, Middle income countries, Middle algorithm, dinical decision support system, coronavirus diagnosis time, emotional support, health care system, middle income country, middle income cou	In low- and middle-income countries (LMCC), Al has been promoted as a potential means of stronghlening healthcare systems by a growing number of publicitions, we lead a broad suriety of Al and healthcare search terms. Our literature search includer extend publicies dreven to Litena terms 2008 and Storegenetic Streams. Our literature search includer extend publicies dreven to Litenava 2008 and Storegenetic Storegenetic Storegenetic and AAA Paycinfo database, and grey literature from a Google Scholar search. We included studies that reported a quantitative and/or qualitative evaluation of a real-word againstan of Al Arian Michaelth context. We included studies that reported a quantitative and/or qualitative evaluation of a real-word againstan of Al Arian Michaelth context. A Context evaluating the application of Al in an LMC were included. Applications varied widely, including: cifical decision support systems, treatment paining and rices assistant and health charts. Only half of the papers speciet which algorithm and datasets were used in order to train the AL number of challenges of using Al tools were reported, including issues with reliability, midel mayets on world/Now, yoo user (fried/inless and lick of adgettimes with local contexts. Including a database development and adoption of well-performing, context-specific Al tools, such as limited data analiability. Tuxiet and endence of cost-feticenvess in MLC. Additional evaluations of the use of Al In healthcare in MLCs are needed in order to identify their effectiveness in MLCs. Additional evaluations of the use of All in healthcare in MLCs are needed in order to identify their effectiveness in MLCs.	10 1038/41746 622 60700 y	http://www.soppar.com/inward/record.uu?ide3- 2.40-5450428377.doi:10.1038%2141746-022- 00700- 30200- 31241746-022-000000000000000000000000000000000
C. Clavel, Labeau, M., Cassell, J.	Socio- conversational systems: Three challenges at the crossroads of fields	Front Robot Al	2022	9		937825	Affective computing, Machine learning, Multimodality, Natural language processing, Social signal processing, Socio- comversational systems, commercial or financial relationships that could be construed as a potential, conflict of interest.	Socio-conversitional systems are dialogue systems, including what are scontenime referred to a schatters, vocal assistants, social robots, and emolecied conversitional gents, that are consider of interacting with humans in a way that trests both the specifically social rature of the interaction and the content of a task. The sim of this paper is twofold: 1 to uncover some places where the comparison and the content of a task. The sim of this paper is twofold: 1 to uncover some places where the comparison trends systems, and the comparison of the simulation of the	10.3389/frobt.2022.937825	
R. Corr	Do androids dream of electric lawyers? The ethics of legal chatbots	ALTERNATIVE LAW JOURNAL	2022	47	4	314-314			10.1177/1037969X221133273	
A. Dahmen, Keller, F. M., Derksen, C., Rinn, R., Becker, P., Lippke, S.	Screening and assessment for post-acute (COVID-19 syndrome (PAG), guidance by personal pilots and pilots and pilots and pilots and pilots and assport with individual digital interactoral certe a study protocol of a randomized controlled trial	BMC Infectious Diseases	2022	22	3		Coss-sectoral care, Digital herargy offer- interdisciplinary diagnostic, Interdisciplinary diagnostic, Iong COVID, Low threshold screening, Medical Iong COVID, Swythom assessment, adult, airplane pilot, Article, COVID-3 synthoma assessment, adult, airplane pilot, Article, adult, airplane pilot, Article, study, evaluation study, feasibility sudy, health program, health service, humanutad Covin, mental function, patient care, indical study massive randomized controlled trial, treatment planning, complication, randomized controlled trial (topic), treatment planning, controlled trial as Topic, Controlled Trials a Topic,	Backgrowni. Breause the chical patterns and symptoms that partial after a COVID-19 infection are diverse, a disposite of patt- acter COVID-19 york (PAG) is difficult to implement. The current research project therefore a time to evaluate the feasibility and the patciclaship of a comprehensive, interdisciplinary, and cross-sectoral treatment program consisting of a low- threshold online corresing and holdits assessment for PACS. Thereforence, it aims to evaluate diptal interventions and the use of so-called personal guides that may help to facilitate the recovery of PACS. Methods: This German study consists of a low- threshold online corresing for PACS where positively screened participants with assophered throughout personal gliots. The personal gliots are aimed at empowering patients and helping them to navigate through the study and different treatment. The ACG does not receive the assossment to PACS through the study and different treatment. The ACG does not receive the assossment to physiological and psychological interventions is used on the needs identified during the assessment to park to compare 40 mices and the Compared to the study and different treatment. The ACG does not receive the assossment to physiological and psychological intervention is based on the needs identified during the assessment to both organize that comparison group (CompG) will be recruited that does not receive the assessment to park the ACG upresed bit and the assessment to physiological and psychological intervention is based on the needs identified during the tassessment to both organize that comparison group (CompG) will be recruited that does not receive any teatment. A program plates the table plates, essingle calibia of the entitient program along to requee PACS symptoms and nature table galax, essingle calibia of the entitient program to along the table plates and the study and program plates the study and the table physical program in the table plates, essingle calibia of the entitient program plates that does not receive	10.1186/s12879-022-07584-±	https://www.scopus.com/inward/record.uu78dd-2 20 453159794048doi=10.1186K21512879-022- 07584- Xgpartner/D-008md5=f488e2eb517aaf1222bf61a63 021df82a
A. De la Rosa Gómez, Waldherr, K.	Editorial: Highlights in digital mental health 2021/22	Front Digit Health	2022	4		1093375	Covid-19, chatbot, depression, engagement, meta-analysis, older adults, social isolation, telemental health (TMH), commercial or financial relationships that could be construed as a potential, conflict of interest.		10.3389/fdgth.2022.1093375	

C. Diamond, Rundle, C. W., Albrecht, J. M., Nicholas, M. W.	Chatbot utilization in dermatology: a potential amelioration to burnout in dermatology	Dermatology Online Journal	2022	28	8 6		chatbot, artificial intelligence, automation, dermatologist, dermatology, electronic medical record, evaluation study, follow up, letter, medication compliance, patient care, patient education, personal experience, professional burnout, social media, software, technology, workflow		10.5070/0328659734	https://www.embasc.com/auxi/insulf3/lubation wieweventiki-luba220505.44/kmwegpt, http://dx.doi.org/10.5070/0328659734
I. Donadello, Dragoni, M.	Al-enabled persuasive personal health assistant	Social Network Analysis and Mining	2022	12	2 1		etexith, Knowledge-baed systems, Logia reasoning, mietaithy, Natural language generation, Ontologies, Persusive systems, Data language processing systems, Data language processing systems, Natural language processing systems, Natural language processing systems, Natural language processing systems, Natural systems, Natural language based systems	This space discusses the use of the HOBUSA valuation, an At-enabled persusive personal health assistant built upon the integration of semantic web technologics and persusive technologics, for motivating people ta dota a health (Fistery et and supporting them to cope with the self-management of chronic diseases associated with bad lifestryke habits. The solution collects data from user's device, special user's happond. The proposing persuasion paper to a solution of the supporting a goal-based metaphor. Persuavie dislogues are used for proposing persuasion paper to a solution of the to achieve the proposed goals. In this paper, we focus on how behavioral change strategies have been exploited for providing a personalized support. The super, we focus on how behavioral change strategies have been exploited for providing a generating strategies and the super strategies. The web metaphone of their chronic diseases based on the subdot data processing. Such results are produced by reasoning operations, briefly mentioned in this paper, and coded into motivational strategies. That weating the materiated how the user of proposed approach supported users about improving the habits from the habits perspectives as well as the overall proposed approach supported users about improving the habits from the habits perspectives as well as the overall proposed approach supported users about improving the habits from the habits perspectives as well as the overall goal acceptability of the system by the auditated within the contex of the key To Health projectives as well as the overall goal acceptability of the system by the auditated within the contex of the key To Health projectives as well as the overall goal acceptability of the system by the auditated within the contex of the key To Health projectives as well as the overall goal acceptability of the system by the auditated within the contex of the key To Health projectives as well as the overall goal acceptability of the system by the auditated within the contex	10.1007/s13278-022-00935-3	https://www.scopar.com/invest/record.un?ded2- 2045315607256060-10.1007%2/s1278-022- 00935- 38partner0-208md5-83893044e916943521ff266 68575149f
G. A. Entenberg, Dosovitsky, G., Aghakhani, S., Mostovoy, K., Carre, N., Marshall, Z., Benfica, D., Mizrahi, S., Testerman, A., Rousseau, A., Lin, G., Bunge, E. L.	User experience with a parenting chatbot micro intervention	Front Digit Health	2022			989022	artificial intelligence, chatkor, conversational agent, intervention, parenting, user experience (UX), commercial or financial relationships that experience as a potential, conflict of interest.	BACKGROUND: The use of chatbots to address meral health conditions have become increasingly popular in recent years. However, few studies aimed to teach parenting skills through vitabots, and there are no reports on parential user sperince. Aim: This study aimed to assess the user experience of a parenting chatbot micro intervention to teach how to praise indivention a spanish-passing output, METHODS. Sharping of B9 parentix were assigned to the chatbot micro intervention as part of a parantering skills of a study of the study. Completion rates, engagement, statistation, net promoter score, and acceptability were analyzed. RESULTS: 65 of the participants completed the intervention. Participants exchanged an averaged 49.8 neasaged of the parents (net promoter score = 6.612, 510 = 5.61). Acceptability level was high (neuro di use - 4.65 (ED = 7.71): confortability = 7.47 (ED = -6.61). Local Charlon approximation (Score). Score and acceptability used have have heat (net promoter score = 6.612, 510 = 5.61). Acceptability level was high (neuro di use - 4.65 (ED = 7.71): confortability = 7.47 (ED = -6.61). Local Charlon approximation (Score). Score and the intervention at a high rate, engaged with the chatbot, were satired, would recommend to to others, and reported a high heat of acceptability. Neuroimator is needed.	10.3389/fdgth.2022.989022	
H. B. Essel, Vlachopoulos , D., Tachie- Menson, A., Johnson, E. E., Baah, P. K.	The impact of a virtual teaching assistant (chatbot) on students' learning in Ghanaian higher education	International Journal of Educational Technology in Higher Education	2022	15	9 1		Artificial intelligence, Ghanalan higher education, Student-instructor Interaction, Virtual teaching assistants, Zero-coding chatbot	Chatbot usage is evolving rapidly in various fields, including higher education. The present study's purpose is to discuss the effect of a virtual teaching assistant (nation) that automatically reported to a student's question. A previous was implemented, with the 68 participating undergraduate students being randomly allocated to scenarios representing a 2 v 2 design (respinnented and control cohort). Data was garreed usiliarija an acadime: Achievement test and forca groups, which allowed more in depth analysis of the students' experiment with the chatbot. The results of the study demonstrated that the students who interacted with the chatbot performed better academically company part to those who interacted with the chatbot instructor. Beakdes, the flocas groups data garneerd from the experimental choot and there were regarding interaction with the chatbot. This study contributes the emerging artificial intelligence (A) chatbot interactuate were regarding interactions with the chatbot. This study contributes the emerging artificial intelligence (A) chatbot therature to improve student assistem performance. The contribution control were and development of virtual teaching assistent using a serv-coding technic performance. The control performance better academication with limited financial and home a serv-coding technic which is the most suitable approach for organizations with limited financial and home necesaries. B 2022, The Author(a).	10.1186/441239-022-00362-6	https://www.scopia.com/invard/record un?fed52- 20545149649860660=10.1186x71641239-022- 00362- 68partnerit-sel&md5=f04dbbbeedasfdcf064df150 731e4dff
J. Fardouly, Crosby, R. D., Sukunesan, S.	Potential benefits and limitations of machine learning in the field of eating disorders: current research and future directions	Journal of Eating Disorders	2022	10	1		Artificial learning. Chatbot, Detection, Eating disorder, Ethical concerns, Machine Learning, Social media, Israning, Social media, Statistics, Treatment	Advances in machine learning and digital data provide was potential for menat health predictions. However, research using machine learning in the field or eating disorders is just beginning to emerge. This paper provides a marzithe review of existing research and explores potential benefits, limitations, and etikical considerations of using machine learning to aid in the detection, prevention, and treatment of eating disorders. Current research primarily use machine learning to predict eating disorder status from femaler "reportse to validated surveys, social media posts, or neuroimaging data often with relatively high heart of accuracy. This early ward provides indicates for humo potential of remidential tearing to impreve control same single heart of accuracy and the primary and the status from the same potential of machine learning to be registered. One sky benefit of machine learning to 100 to 1000 of million distriction and their complex non- linear interactions, but few studies have explored this potential in the field of eating disorders. Machine learning is also being used to develop characita to provide potentia in a bandine learning potential statistical methods in the advance implement to same that machine learning to personalise treatment options, provide ecological momentary interventions, and all the work of microbine learning to personalise treatment options, provide ecological momentary and cut-effective detection, prevention, and treatment of assis disorders. More research is needed with large samples of dowers participants is also discussed. Machine learning provides vast potential for leaccurate, <i>radiasal</i> , rather than a magical colution, machine learning tholds be seen as an important too to aid the work of risearchers, end, eventually dimicians, in the early identification, prevention, and treatment of eating disorders. © 2022, The Author(s).	10.1186/440337-022-00581-2	https://www.scopu.com/invera/fecord/un7eid=2 20.451379771264de=10.1186/k21450337-022- 00581- 28.patriteri0-42.68kmd5=d59cuc16717134913a0772 d758945b41
M. Fidan, Gencel, N.	Supporting the Instructional Videos With Chatbot and Peer Feedback Mechanisms in Online Learning: The Effects on Learning Performance and Intrinsic Motivation	Journal of Educational Computing Research	2022	60) ;	1716- 1741	artificial intelligence, chatbot, feedback, intrinsic motivation, online learning, peer feedback, teacher education, video-based learning	This study investigated the effects of artificial intelligence (b) based databat and per feedback mechanism integrated into the instructional video (b) is a 16 related action a lowing performance and horizon durinoities of per services trackers (PT a) is online learning. The participants were 144 PTs (rom a university) in Turkey A pertici-positient again sequence of the service of the servic	10.1177/07356331221077901	https://www.scopus.com/inward/record.uni?eid-2- 2-0- 8512826897&doi=10.1177%2073553312210779 03&partnern—bc3bad489d9499669b5b45 74383bc318f
L Flierman, Zia, G., Loria, A., Jansen, S., Hurrmuz, M., Van Velsen, L., Fard, B., Del Signore, S., Del Signore, S.	Social Robots as a friendly interface for Older Patients participating to Clinical Trials	European Geriatric Medicine	2022	13		5336- 5337	aged, dhatbot, conference abstract, controlled study, conversation, coronavirus disease 2019, severcise, human, nonhuman, nurse, outcome ausesum, people autome ausesum, people ductome ausesum, people autometer, robat, robatics, tablet computer, technology, usability, workload	Background: We previously evaluated Nasa, a small humanoid robot, to administer autoevaluation questionnaires to older adults. The robot starts a conversation, as so questions, waith of a mover, interpret is to content, and file results. Acceptability was good, with listening comprehension limitations e.g., for local dalects or "tow" robotic voice loadness. Objectives: To test Peoper, a 120-cm humanoi robot (Softabilita Robotici) as a firediny interface for Tabert's Reported Ductomes, remotely integrated to a web-based data platform. Methods: Boessing R&D and Illucompanion implemented "Scotty", a technology transfer project Inded by DH+HEO (gasta at 22000 Horitoscit): Peoplemical "sensitives" and the chabilitation ward was among expected benefits, solid mighting platents' preceder also abless data and be project from Naka To 2113 to Mp 2022. The "solidy" channels "was a human Educed Scottage at the chabilitation ward was among expected benefits, solid mighting platents' preceder also abless data of the project from Naka To 2113 to Mp 2022. The "solidy" channels was a human Educed Scottage worth patients. Howing graphic examples or petiting additional parameters via the table. Data are automatically forwarded to the catomisted CF. Scotty on show precedenced platform al parameters via the tables. Data are automatically forwarded to the catomisted CF. Scotty on show precedenced platform al parameters via the table. Data are automatically forwarded to the catomisted CF. Scotty can be precedenced platform alcontos. The implementation of a connected social additional robot-related tasks e.g. the need to accompany Scotty at the patient's bed. Scotty can be a friendly interface to a clinical data platform and can be easily adapted to specialized geriatric infrastructures.	10.1007/s41999-022-00711-8	http://www.embase.com/seard/reut/seutosub wewcordskie.com/sea900128forme.epont, http://dx.doi.org/10.1007/41999-022-00711-8
C. A. Gao, Howard, F. M., Markow, N. S., Dyer, E. C., Ramesh, S., Luo, Y., Pearson, A. T.	Comparing scientific abstracts generated by OnatGPT to Ordginal abstracts uning an artification intelligence output detector, plagiarism detector, and blinded human reviewers		2022		(Gao C.A., catherin stem-de with Markov N.S.) Markov N.S.) Division of Pulmon of Pulmon of Pulmon of Critical C		adult, artificial intelligence clinical article, controlled study, analysis, controlled study, female, human, human experiment, language, male, plagiarism, probability, receiver operating characteristic, writing	and/growni. Large language models such as ChatGPT can produce increasingly realistic Lett, with unknown information on the accuracy and integrity of using them condition is increating environment. Methods: We gata the start from the high impact factor model journals (n=50) and aixed ChatGPT to generater escarch abstracts based on their titles and journals. We evaluated the abstracts using an artificial integritorial environment. More generated interact, abstracts from the high evaluated the abstracts using an artificial integritorial environment. More generated abstracts were written clearly but only \$5 correctly followed the specific journal's formating requirements. Most generated abstracts were detected using the Al output detector, with scores (higher meaning more likely to be generated) of median [Interguartiter angle of 99.98% [12:37, 98.98] compared with very low ploatibility of Agererated output the original abstracts. Hough the detected using the Al output detector was 0.94. Generated abstracts scored very high on originality using the plagnism detector (100% [10:0] originality]. Generated abstracts are simple abstracts, hough detector (100% [10:0] originality]. The scores original originality interacts and any detector (100% [10:0] originality]. The scores detector abstract scored wery high on originality using the plagnism detector (100% [10:0] originality]. The scores detector abstract abstracts are being means the scores of the Al output detector was 0.94. Generated abstracts are being the scores of the Al output detector was 0.94. Generated abstracts are being means the scores of the also are also are also adstracts. Hough the detector (100% [10:0] originality]. The scores detector and the low originality detector and abstracts were vagues and had a formulace feet to the writing. Candiusion: CANGPT writes believes the hout but the generated abstracts were vagues and had a formulace feet to the writing. Candiusion of Al output detectors in the detector is an edificial barders in the	10.1101/2022.12.23.521510	https://www.embass.com/auxin/jesult3/ubatton wiewwordtikii.com/22266348/mw-export http://dx.doi.org/10.1101/2022.12.23.521610

A. Gilson, Safranek, C., Huang, T., Socrates, V., Chi, L., Taylor, R. A., Chartash, D.	How Does ChatGPT Perform on the Medical Licensing Exams? I Language Models for Models fo		2022		(Gilson A.; Safrane C.; Socratei V.; Chi Taylor R.A.; Chartas h D., david.c. artashi yale.ed J Sectio for Biomec cal Informa tics and Data Science Yale Universi ty School of	s s h g u u n n i i i i i	artificial intelligence, chatbo; controlled study, coroner, education, human, human equrimen, licensing, medica education, medical student, lunguage processing, reasoning	Bickground: ChulGPT is a 125 billion parameter natural language processing model which can generate conversation style responses to user intro. Dispetive To evaluate the performance of ChulGPT on questions within the scope of Unied States Medial Licensing Examination (USMLE) Step 1 and Step 2 exams, as well as nahyer responses for user interpretability. Methods: We used we novel sets of multiple choice questions to evaluate ChulGPT performance, early on the questions pertaining to Step 1 and Step 2. The first was derived from AMBOSS, a commonly used question bank for medical students, which also provides traditional (MicML) and the pertaining and presence of information external to the question. ChalGPT selected anover was recorded and the text odupt evaluated arrows three auditative metrics locagical justification the answer was recorded, and the text odupt evaluated arrows three qualitative metrics locagical justification the answer valence of information internal to the question, and presence of information external to the question. Results, On the four diverses, AMBOSS Step 1, AMBOSS Step 2, JMBOF resel, Step 1, and MBOF resel, Step 2, dataset N, MBOF	10.1101/2022.12.23.22283901	http://www.embase.com/search/results/abaction enverveordik-in2020757818/norme.poprt. http://dx.doi.org/10.1101/2022.12.23.22283901
L. Gkinko, Elbanna, A.	Hope, tolerance and empathy: employees' emotions when using an AI- enabled chatbot in a digitalised workplace	Information Technology and People	2022	35		6 1714- 1743	Al use, Artificial Intelligence, Octatorb, Digital ways of working, Digital workplace, Emotions, Emotions at work, Folume of work, Technology use	Purpose: Information Systems research on emotions in relation to using technology largely holds exertilist assumptions about emotions, focuse on negative emotions and treats technology as tablen or as ables box, which index as an in-depth understanding of distinctions in the emotional experience of using an Athlatist as a specificity ged Athlatist assumptions about focuses on understanding emolysers' emotional experience of using an Athlatist as a specificity ged Athlatist assumptions from how it is used and is conversational, displaying associal presence to users. The research questions how and why reimplayes argenized emotion when using an Athlatist and how there emotions inpact (true). Charge Infectiood/systems Athlatist documents review and obscination of user. This tably found that emplayes appraising of chalatos were influenced by the form and functional design of the Athlatist technology and the cognitization advice action correct. This research questions and waits a specific type of Athlatist and the company emotions. The finding show that the estication of the cognitization advice contract, research questions and a social reperior of appraisals and multiple emotions. In addition to positive and negative emotions, user sepremented ontices can determine the state of an Athlatist emotions can encourse for flow of the desperienced on the cancel and the contract and the state and and an equations cancel and a hothout. Originality/value: This research extends information systems literature on enotions by focusion on the lowed experiences of employees in their calue and an Athlation. The Athlatist Charlot and the discognition and and and addition context. The findings inform the emerging literature on AL @ 2022, Lorentia Gkinko and Amany Ebanna.	10.1108/ITP-04-2021-0328	https://www.scopuk.com/invard/record un?ded- 22.04531003372680e1.011098/HTMP-04-021- 03288.partnertD=0&md5=601bth5d07bd3890bb2f 0777d6406f51
U. Gnewuch, Morana, S., Adam, M. T. P., Maedche, A.	Opposing Effects of Response Time in Human-Chatbot Interaction: The Moderating Role of Prior Experience	Business and Information Systems Engineering	2022	64		6 773-791	Chattor, Expectancy violations theory, Lab experiment, Prior experience, Response delay, Response time, Social response theory	Retextor has shown that employing social cuice (e.g., name, human-inter avaids) in childbo design embances users social presence perceptions and her's childbo targe intertions. However, the picture is its desire for the social cuice (e.g. cuice) response time. While some researchers argue that instant responses make childbo aspear anhamen-like, childbo aspear endegend responses are perceived less positively. Drawing on social response they and expectancy validations there, his study 2021, participants interacted with a cuitator that responded either instantly or with a delay. The result need that a delayed response time has possing effects on social prevence and using intentions and phase light on the offerences between more users and experienced user – that is, those who have not interacted with a cuitator before sit, those who have. This study contributes to information systems literacture by destifying prior experience as a skill model and that causator that uses users 'social responses to childbots and by recording inconsistencies in the literature regarding the role of chaltor tegonse time. For paratitioners, its study points out a drawback of the widely adopted "one-design-fits-all" approach to chaltotot design. © 2022, The Author(s).	10.100//\$12599-02-00/55-x	http://www.copu.com/nward/record un/edd- 20 45310/3246640=1.00079%.Http: 20035- Algorther/D-40&md5=a7a0012de19e72e3de239aa esite4ta1
F. Graham	Daily briefing: Will ChatGPT kill the essay assignment?	Nature	2022						10.1038/d41586-022-04437-2	
A. Grinbaum, Adomaitis, L.	Moral Equivalence in the Metaverse	NanoEthics	2022	16	i	3 257-270	Affective computing, Artificial intelligence, Chatbot, Ethics, Extended reality, Virtual reality	Are digital subjects in virtual reality morally equivalent to human subjects? We divide this problem into two questions bearing, respectively, on cognitive and endioral equivalence. Typically, cognitive equivalence does not hid date on the lack of substantials indistinguishability, but endiciaal equivalence applies: digital subjects endowed with face of language elicit entotional response on gar with relevant of plassure, deriver. The horror, of rar. This is sufficient for approximation moral tatisso avaitars in the metaverse or on dialog systems based on large language models. Our main case study is a duabot trained on the dual bisoty between a Canadian man and his decased flackor. To demonstrate endowed subjects and the metaharino moral tandset, we compare digital devices with the functioning of oracles in a story by fluxtrat and in a surtative that draws on the book of denses. Finally, who net that, along with the projections of ethicit bases, human skid betto to bing real-word solutions of moral conundrums into extended reality. We argue that the lack of cognitive equivalence makes such projections problematic as they lead to overpolicing and a sanitized metaverse. © 2022, The Author(s), under exclusive licence to Springer Nature 8.V.	10.1007/s11569-022-00426-x	https://www.scopus.com/inward/record_un?eld=2- szt_04514216838doi=10.1007%2fs11569-022- 00426- Xgpartner10=408md5=73493e8d7a4809c21c93a6b 78e14f34b
Y. Guo, Wang, J., Wu, R., Li, Z., Sun, L.	Designing for trust: a set of design principles to increase trust in chatbot	CCF Transactions on Pervasive Computing and Interaction	2022	4		4 474-481	Chatbot, Conversational interaction, Design principles, Design semantics, Positive emotions, Trust, Natural language processing systems, Chatbots, Conversational agents, High-tech products, Natural languages, Users' acceptance, Semantics	Trust is an important factor influencing user acceptance of high-tech products. As the artificial intelligence and natural language processing develop. all links of conversational agents (intabul) have appeared around us. These chatbots are able to provide people with convenient services such as ordering food, stock recommendations, fund diagnostics, However, it is still not clear how to make users led chatbot trustowerby. In this study, we aims for experise as a tobel participate to build trust between users and conversational agents. Based on extensive research on trust, we proposed five design semantics and 10 design principles, and vertice their effectiveness through experiments. The result of experiment suggest that our clear principles in improve users' trust towards chatbot, thus provided guidance and suggestions for designing more trustworthy chatbots in the future. 0 2022, China Computer Fieldention (ICCF).	10.1007/s42486-022-00106-5	https://www.scopar.com/inward/record un?eid=2: 2:043310436686bi=10.1007%7142486-022- 00106- 55partner10-268nd5-8861:305bea0672b914423 623e666f61
S. Gupta, Chen, Y.	Supporting Inclusive Learning Using Chatbots? A Chatbot-Led Interview Study	Journal of Information Systems Education	2022	33		1 98-108	Artificial intelligence, Chabot Inclusive learning, Is education, Learning, Artificial intelligence agent, Chabots, Conversational agents, Experimental platform, High educations, Interview study, IS educations, Teachers', Students	Supporting student academic success has been one of the major goals for higher education. Nowever, low teacher-to-student ration makes i difficult for students to review sufficient and personalised support has they might wants. The advancement of artificial intelligence (A) and conversational agents, such as chatbots, has provided opportunities of subdets. This research main at investigate the opportunities on subdets, as an intelligence of personalised support that of subdets. This research inclusive kerning. Through a chatbot chatbots are intelligence of the opportunities of subdets. This research inclusive kerning. Through a chatbot-to support students with support students and investigate the design opportunities of subdets. This research inclusive kerning. Through a chatbot-take subdets, subdets, and the subdet students, we found chatbots provide the opportunity to support students who are disadvantaged, with divense life environments, and with vioriel learning lights. This could be achieved through an accessible, interactive, and confidential way O 2022. Journal of information Systems Education. All Rights flexerved.		https://www.scopus.com/Inward/record un?deid=2- 2-0- 85125073350&partnerID=40&md5=<5f656662cdd1 a78ab03f1e536b0f96
J. W. Han, Park, J., Lee, H.	Analysis of the effect of an artificial intelligence chatbot educational program on non- face-to-face classes: a quasi- experimental study	BMC Med Educ	2022	22		1 830	Humara, Artificial Intelligence, 'COND- 13/epidemiology, Pandemics, Learning, 'Students, Nursing, Chatbot program, Clinical reasoning, Data processing, Education, Nursing	BACGGOUND: Education and training are needed for nursing students using artificial intelligence-based educational programs. However, few students here assess the dire fect of using catabotics in nursing education OIECITEXT: This students to the electronic felat nursing in nursing calculation on Chece T-bace Classes during the COVID-59 pandemic. DESIGN of the students of the student students of the students of the students of the students of the students electronic relation nursing calculation classes of the students of the November 3 and 15, 2021, and naviged using independent F.tests. RESULTS: The experimental group-in which the artificial intelligence clabitor forgram was applied with an using calculation class hyperfiller and there is no which the artificial intelligence clabitor forgram was applied with an using calculation class students in students of the students of the classes of the students of the students of the students of the students of the students of the students of the students of the students of the students of the students of the students of the students of the students of the nurse students of the students of the nurse students of the students of students	10.1186/h12909-022-03898-3	
J. W. Han, Park, J., Lee, H. N.	Analysis of the effect of an artificial intelligence chatbot educational program on non- face-to-face dasses: a quasi- experimental study	BMC MEDICAL EDUCATION	2022	22		1	Artificial intelligence, Nursing Education, Clinical resoning, Chatbob program, Data processing	Background ducation and training are needed for nursing students using artificial intelligence based educational programs. However, for students have assess the direct of using clathosis in nursing education. Objective/This study aimed to develop and examine the effect of an artificial intelligence chatbot educational program. For promoting nursing skills related to detection (relation normaling education) normalized science during the CVD pandemix. DesignThis gasai-seperimental study used a nonequivalent control group non-synchronized pretext-postteti design. Methods the participant stress E1 junc of used in Nonequivalent control group non-synchronized pretext-postteti design. Nethods the artificial intelligence chatbot program was applied dire how that statistical yarginizmat afferessine in howedee [1 - 0.32, p 4.55], confidence (t = 1.13, p = 2.64), and feesback statistication (t = 2.37, p = 2.00) compared with the control group. Nonever, its participants' interest in deucation (t = 2.37, p = 2.00) and self-directed learning (L = 2.37, p = 2.00). Compared to all works and the control group. Nonever, its participants' interest in deucation (t = 2.38, p = 2.00) and self-directed learning is used statistication (t = 2.38, p = 2.00) and self-directed learning (L = 2.37, p = 2.00) is leared statistication of the control group. ConclusionThe findings of our study highlighted the particial artificial intelligence chatbot programs as an ducational assistance tool to program the nursing students' skills in non-face-to face-situations caused by the ongoing COVID-19 pandemic.	10.1186/h12909-022-03898-3	
R. Hardi, Azmi, M. S., Pee, A. N. C., Rusli, M., Bin, M. H. L., Herman, N. S.	An Enhanced Framework for Academic Information Service Using AI Chatbots	NeuroQuantolog Y	2022	20	1	9 2263- 2277	chatbot, article, artificial intelligence, Cronbach alpha coefficient, data consistency, data validity, human, information service, knowledge, linguistics, machine learning, medical research, natural language processing, scientific literature, system analysis, test retest reliability	Students often overfook andemic administration data services dissemanted through different internet platforms. Using chat tools, students are often more dominant in ferely addressing research program superioring overfices. Nonever, due to a staff shortage on the data provider side, data services through chat apos cannot be delivered adequately. Furthermore, actional staff caputs started to decline, although a parcent of lectures 24 at 100 percent in studies comparing charters. Notability test staff, but to the assessment findings, chatbot's successfully boot efficiency in dealing with client inquiries. Skrip-two respondents used chatbots, including 13 alterent of lectures 22 percent of staff. and 75 op ercent of staff, underts. Capability consistency, accountability, and performance are all aspects of chatbot technology testing. The significance threshold for the willight test 155°. The test findings result that consumers' using of chatbot technology to receive acdemic information is more trustworthy, with a Combach Alpha score of 0.22. Chatbots are being used to provide a solution for the academic personnels used the actionic score successfully and officancy. Chatbots may be marked personnels burden and improve service quality at tetrainy institutions. In this study, a chatbot was created to deliver data regrests from consumers on its own.	10.48047/mg.2022.20.19.NQ89191	https://www.embase.com/sear/hresulfs:hubstion wiewerscrikkie:2018830148/forme-zopot. http://dx.doi.org/10.48047/nq.2022.20.19.NQ9919 1

L. He, Balaji, D., Wiers, R. W., Antheunis, M. L., Krahmer, E.	Effectiveness and acceptability of conversational agents for smoking cessation: a systematic review and meta- analysis	Nicotine Tob Res	2022				chatbot, conversational agent, mHealth, meta-analysis, review, smoking cessation	NTRODUCTON: Conversational agents (computer programs that use artificial intelligence to simulate a conversation with users through natural language) have evolved considerably in recent years to support healthcare by providing autonomous, interactive, and accessible service, major them potentially usered for supporting major displants and acceptability to informa future development and adoption. MTCIONS PayloRis, Web a Storme, ARM Ogala Library, LEE 3(doer Helline, EMBASC, Communication and Mass Media Complete, and CANMA, Complete were searched for studies samining the use of subarts. The subart search and accession of the start searched to studies a start and acceptability to informa future development and adoption. MTCIONS PayloRis, Web a Storme, ARM Ogala Library, LEE 3(doer Helline, EMBASC, Communication and Mass Media Complete, and CANMA, Complete were searched for studies samining the use of studies for random-effects meta-analyses. All studies register do systematic review (1996) (SSI Col. 13-20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	10.1093/htt/rtac281	
L He, Basar, E, Wiers, R. W., Antheunis, M. L, Krahmer, E.	Can chatbots help to motivate smoking cessation? A study on the effectiveness of motivational interviewing on engagement and therapeutic alliance	BMC Public Health	2022	22	:	1	Chathot, Engashvi, Engagennent, Motivation to Quit, Motivational Interviewing, Snoking Cessation, Therapeutic Alliance, health care delivery, human, motivation, procedures, snoking, Delivery of Health Care, Humans, Smokers	intervention delivery. Background: Gignette smoking pases a major threat to public health. While cesation support provided by healthcare professionals is effective. Its use remains low. Chatteds have the potential to searce as a useful addition. The objective of this study is to explore the possibility of using a motivational interviewing style databot to enhance engagement, therapeutic aliance, and prevented empathy in the context of monitoring resolution. Nethods: A progritted web backet experiment was conducted in which nonkers (n = 153) were randomly suggest to either the motivational interviewing (M)-style clattoot condition (n = 730 protein endration databot on use interventions were administered by the clattoot in to essions. In the assessment ession, tripcial instate questions in moking cessation interventions were administered by the clattoot, turba as unoking history, incicture dependencies level, and intertion to quit. In the feedback session. Rebuilds a provided personalized anomative feedback and discussed with participants potential reasons to quit. Engement with the clattori, therapeutic aliance, and preceived empathy were the priminy votomes and antical databot were forth sessions. Results: No significant effects of the experimental anangination (Marsiyle entral clattabot veri down databot engement, therapeutic aliance, or perceived empathy. A significant increases in the segment, therapeutic aliance, and perceived communication competence and your classical databot were found on engigement, therapeutic aliance, and perceived empathy. A significant increase in the segment, therapeutic aliance, and perceived comparison of the observative significant of the precision of the observative significant on the perceived comparison of the segment. The sequencie aliance and perceived engaptive, classical databot were benefative abited by classical classical and and a sequence in the sequencie aliance and perceived engaptive, classical anot an object benefative abited by a benefative to quit	10.1186/512889-022-13115-x	http://www.scopus.com/inward/record uni?bid=2- s2.0 = 511281386686de0i=10.11860%2fs12889-022- 13115- %Apritror10=408md5=2ac?2fbc74132ebcaaa0531 b8d329a4c
Y. He, Yang, L., Zhu, X., Wu, B., Zhang, S., Qian, C., Tian, T.	Mental Health Chatbot for Young Adults With Depresive Symptoms During the Covto-19 Pandemic: Single Bind, Three-Arm Randomized Centrolled Trial	Journal of Medical Internet Research	2022	24	1:	1	Oter/TR310005252, chitabo, addresser, and all write, divised in the second of the second chical affectiveness, cognitive behavioral therapy, ontrolled study, coronavirus disease 2019, depression, emetal health metal health second metal and provide the second prosecution, comments and processing, pandemic, Patient Health Questionnaire 9, psychological counseling, relation, satisfaction, self exteem, single bind procedure, thematic analysis, working allance questionnaire, young adult	Background: Depression has a high prevalence among young daults, especially during the COND-19 pandemic. However, mental heady nurveices remain scatters and understituted workforms, the sense of the products are an out of given the sense of the product of the sense of the sens	10.2196/40719	http://www.embase.com/sarch/results?hubaction ~werenecord8.del.202195487084romesport, http://dx.doi.org/10.2156/40719
A. Huang, Chao, Y., de la Mora Velasco, E., Bilgihan, A., Wei, W.	When artificial intelligence meets the hospitality and tourism industry: an assessment framework to inform theory and management	Journal of Hospitality and Tourism Insights	2022	5	:	5 1080- 1100	Artificial intelligence, Augmented reality, Deep learning, Innovations diffusion, Machine learning, Technology adoption, Virtual reality	Purpose: This study reviews existing research and current applications of artificial intelligence (AI) in the hospitality and tourism industry. If uther proposes a new evaluation framework to inform the susceptibility of AI adoptions. Design/methodological/papproxt: This is a provide and to study that qualitatively summalizes and presents findings on based on flagent? (2003) diffusion theory. Findings: AI adoption susceptibility in the hospitality and tourism industry varies based on flagent? (2003) diffusion theory. Findings: AI adoption susceptibility in the hospitality and tourism industry varies based on the type of a Secolyboxide program and theoretical underpinning and A applications. The findings is support researchers, developers and manages in evaluating the adoption susceptibility of AI technologies in the hospitality and tourism industry. This paper is among the few that focus on assessing AI adoption susceptibility in the hospitality and tourism industry. This paper is among the few that focus on assessing AI adoption susceptibility in the hospitality and tourism. 0 2021, Emerald Publishing Limited.	10.1108/JHTi-01-2021-0021	http://www.scopus.com/inward/record.ui7ield=2- 22.0-53110424568doi=10.1108/271HT-01-2021- 00218.putrtmin0-048md5=e5781bc542cH133eb5df 98e1545837
H. Y. Huang, Fanjiang, Y. Y., Hung, C. H., Lee, C. A.	Design and Implementation of a Smart Intercom System through Web Services on Web of Things	Telecom	2022	3		4 675-691	embedded system, instant messaging software, web of things, web service	In this paper, an embedded system is used as a host for the intercom and us a chattor server for this system. The chattod server controls door looks, carmers, buzzer, and related devices through web services on the VO (Net of Things) to provide residents and visitors with better functionality and integrational services. This system can greatly improve the security and convenience of the system compared with the traditional interview mystem. The relation uses the instant messaging software of the smartphone to reglace the handset function, and there is no need to install and learn new app, reducing the cost of the handset and the wing indoors and outdoors. Whether or not the residents are at home, they can direct whether there are visitors and check the status of their doors through their smartphones. Conversely, any visitor can also contact the resident through this intercom, while there is no value to confirm whether the readent set is thore on not, which enhances the security of the house. This system provides flexibility in wireless installation and use and sufficient mobility for reidents. The system architecture strikes ago chalance between user conversione and home security and between performance and cost, effectively improving home security and reducing costs. D 2022 by the authors.	10.3390/telecom3040036	https://www.scopus.com/inward/record.un?ield=2- 20- 85146736078Adoi=10.3390%2frelecom3040036&p annen0=+08kmd5=2306cef589d61025e564275ab8 1715d1
I. Iancu, Iancu, B.	Interacting with chatbots later in life: A technology acceptance perspective in COVID-19 pandemic situation	Front Psychol	2022	13		111100	behavioral intention, chathots, indick-aged and aging adults, perceived asse of use, perceved usfuness, technology acceptance model, commercial of financial relationships that could be construed as a potential, conflict of interest.	ARTRODUCION: Within the technological development path, chattots are considered an important tool for economic and social excitises to become or efficient and to develop aucomer energic segments that time for humo humo habous, Athogia anticiais intelligence is increasingly used, there is a lack of empirical studies that ain to understand consumes' experience with databats. Microsov, in a contex characterized by constant population aging and an increased life expectancy, the way aging databats precise technology becomes of great interest. However, based on the digital divide (inequal access to technology, knowledge, and resource), and inter equation is flow and the precision. The present paper investigates the way chattots are percivately middles aged and aging adults (get between BJ and 34 yeas) survey has been conduct. The age-range of the subjects is 40-78 years of a, accoverince sampling technique being used (lit = 235). The timeframe of the study is May- Liange 2022. Thus, the results show that hub percivations as its is proceeding used (lite considered to Host). Star develops and the precision of the results from that hub percivation and use is inplanted by the effort, the complexes, and the percision. The results show that has a lite percision and the site site part of the Host the complexes, and the percision and the study and the results show that hub percision as easis to site part of the Host the complexes, and the percision that the results show that has a previous chart that the result show that hub results and that has the results show that have a chart too is inplanted by the fort, the complexes, and the percision fails at the results show that have valuated to the theoretical assumptions and if the other constraint the way valuated is an other percentation and and aging adults are likely to further use chattobs (perhorized in hereinding) if they consider this interaction useful and if the other constraint the way valuated is and the show the percentation are to a percende later to	10.3389/fprg.2022.1111003	
A. Janssen, Rodríguez Cardona, D., Passličk, J., Breitner, M. H.	How to Make chatbots productive – A user-oriented implementation framework	International Journal of Human Computer Studies	2022	168			Ohtbot implementation framework, Human computer interaction, Human-centered design, PACT framework, Activity contexts, Chabtos, Corporate environment, Human-centred designs, implementation process, People, activity, context, and technology framework, Service process, User oriented	Many organizations are pursuing the implementation of chatbots to enable automation of service processes. However, previous research has highlighted the existence of practical setbads in the implementation of chatbots in corporate environments. To deployment, we conducted environmentation detections and proceedings of chatbot development to set of chatbots and proceeding of the set of the s	10.1016/j.jpcs.2022.102921	https://www.scopus.com/inward/record.ut7ield-2- 22.3 2005/0008.doi-10.10.1690.fg.ijkez.2022.102921 8.gartneti0-408.md5=66c6f28028c573333ca87863 c3203aac
A. Janssen, Cardona, D. R., Passlick, J., Breitner, M. H.	How to Make chatbots productive - A user-oriented implementation framework	INTERNATIONAL JOURNAL OF HUMAN- COMPUTER STUDIES	2022	168			PACT framework, Chatbot implementation framework, Human computer interaction, Human - centered design, PUBLIC-SECTOR, DESIGN, TECHNOLOGY, AI	Many organizations are pursuing the implementation of chatbots to enable automation of service processes. However, previous research has highlighted the existence of practical setbads in the implementation of chatbots in corporate environments. To exist the single process of the setbad setbad and the setbad setbad content analysis and based on a review of literature on human compare interaction (HCI), information systems (G), and chatbots, we present an implementation manwork that suggests the successful designment of autobits and discuss the implementation of chatbots through a userofered lens. The proposed framework contains 100 guiding questions to support databot implementation in a eight-step coreces. The questions are structured according to the people, activity, context, and technology (PACT) framework. The adapted PACT framework is evaluated through setter interviews and a focus group discussion (FGD) and is further applied in a case study. The framework can be setter as a bridge between sites and according to the setter and is structure for practitiones to introduce a chatbot time and useroriented manner.	10.1016/ј.ijркс.2022.102921	

R. Jeindl, Goetz, G.	Chatbot-Based Symptom- Checkers: A Systematic Review	International Journal of Technology Assessment in Health Care	2022	38	8	532	salut, databat, conference abstract, diagnostic, least accuracy study, diagnostic, least accuracy study, drug safety, emergency care, female, health care personel, human male, medical research, observational study, overdiagnosis, patient triage, andomized controlled trial (topic), risk assessment, self (topic), risk assessment, self (topic	broadcaton Symptom checkens are digital health applications (DMA) with diagonatic algorithms. These symptom checkers datin to improve the diagonatic process and patient guidance. Which a single thas use the obscribe the symptom checkers of the single table of the single table of the diagonatic process of the same table symptom checkers from the factorial diagonate, and/or guide reaches the symptom checkers form to the classics of the growing much and increasing used the diagonatic process of the symptom checkers from the factorial institute for itselfshifts (Factorial Checkers) and the single symptom checkers from the factorial institute for itselfshifts. The factorial institute for itselfshifts, or the symptom checkers from the factorial institute for itselfshifts, or an endotic symptom checkers from the factorial institute for itselfshifts, or an endotic symptom checkers from the factorial institute for itselfshifts, or an endotic symptom checker for diagonate is carrowy, tables accuracy, tables accuracy tables, and table growthesis and symptom checkers (and adaptication symptom checkers) and a patient-relevant endoports. For accuracy studies includes fact RIC and adaptication was adapted as a patient of the single symptom checkers (and adaptication symptom checkers) and a garden studies. The diagonate is carrowy and fact fact RIC and adaptication is a symptom checkers (and adaptication symptom checkers) and a garden studies. The diagonate is carrowy and fact fact RIC and adaptication and a symptom checkers are electrified (as observational studies). The diagonate is adaptication and adaptication adaptin adaptication and ada	10.1017/50266462322001313	http://www.embase.com/acad//insulf.s/babtoo //www.com/acad/sch005/3008/m-acapont, http://dx.doi.org/10.1017/50266462322001313
W. Kansteiner	DIGITAL DOPING FOR HISTORIANS: CAN HISTORICANS MEMORY, AND HISTORICAL THEORY BE RENDERED ARTIFICIALLY INTELLIGENT?	History and Theory	2022	61	1 4	119-133	argumentation, artificial intelligence (AI), collective memory, discription, GPT-3, historical theory, historical writing, large language models, machine learning, narration, OpenAl	Autificial isolitignece is making history, literally, Machine learning tools are playing a twy rote in corting images and orders about the past is popular culture. All secondarily also arkengly invested the history cultures nucleus integer models such as GPT-3 are able to generate competing, non-plagarated tests in response to simple natural language inputs, thus providing students with an opportunity to produce high-pulsity without assignments with minimum effort. It a simple model such as generated intermediate work products, rook as accurate transitions, runnarides, and dronologies. Burgerend ay language models fail at key tasks that historians hidd in high regard. They are structurally incapable of telling the truth and tracking pieces of information through passes of tests. What's more, they task effects effectively. Therefore, for the time approprint piece of the subscription of the subscription and secretive historical iterations, and there an opportunity to advective effective relations and enterprises and secretive historical iterations, for the cultural pieces of information through passes of tests. What's and cultural pieces of information through passes of tests. What's and apportunity to the sales hypotheses also but the nature of historical writing, Historical information, for the sale culturation in the capable the project relation between elevipients, narrative, and assertive histories about the same events, thereby evaliding through language models, historical theorists can run the kinds of large-scale writing experiments that the culture particles with relations. Discord artificients and theorists are used writing withing the relation designed the protective which historical theorists and run the kinds of large-scale writing with specifically designed target language models, historical theorists and run the kinds of large-scale writing experiments that the culture run balant of Westignes Linkstory. Discord theorists are used to be an expecification, and and theorists are used toristications an	10.1111/hith.12282	https://www.scopus.com/inward/record.uri?etid=2: 2:0- 85143997248doi=10.1111%7/hthh.122828,partner 10-408md5-61405c57780C13c0b5e9754e307a719 2
K. Keyvan, Huang, J. X.	How to Approach Ambiguous Queries in Conversational Search: A Survey of Techniques, Approaches, Tools, and Challenges	ACM Computing Surveys	2022	55	; ε	i	Ambiguous query, conversational agents, conversational question answering, Conversational Search System, dialogue system, Search directanding, Natural language processing systems, Search regimes, Speech processing, Enchnology transfer, Loterns, International Search System, Safety devices	The advent of recent Natural Language Processing technology has left human and machine interactions more toward conversation. In Conversation is Sarch Systems (CSI) like chalkers can dividual Processing Alskans studies has physics single Anazon Alexa, Microsoft's Cortana, and Google Assistant, both user and device have a limited platform to communicate through chatting or vices. In the information-seeking process, differ user als of not know how too troppedly describe the information-need in a machine understandable language. Consequently, it is hard for the assistant agent to predict the user's intent and yield relevant results by only reling on the original query. Studies we shown many unstallatory results can be enhanced with the benefit of CSS, which can dig deeper into the user's query to reveal the relander. This survey intends to provide a competenties and comparative overlevel of ambiguous query calification task in the context of conversional search technology. We investigate different approaches, their evaluation methods, and future work. We also address the importance of understanding a guery for releving the mark relevant document juical statisticaties results can be there understanding and provides and many of the interband to conversion and the evaluation methods, and future work. We also address the importance of understanding a guery for releving the mark relevant document juical statisting users here by predicting their potential respect. This work provides and anges a C.S. focus on disambiguation of undear queries from various dimensions. B 2022 Association for Computing Machineey.	10.1145/3534965	https://www.scoput.com/inward/record un?edd=2 2:0- 85146490165&doi=10.1145%215314965&partneri D=40&md5=ex0910ac2adf6bf44c1324baa659de23a
F. Khalil, Pipa, G.	Transforming the generative pretrained transformer into augmented business text writer	Journal of Big Data	2022	9	. 1		Business text generator, Natural language generation, Transformers	This study uses transformers architecture of Artificial neural networks to generate artificial business test for a given topic or them. The implication of the study is to agament the business report writing, and general business writing process with help of generative pretrained transformers (generative pretrained transformer (GPT)) networks. Main focus of study is to provide practical use case for GPS models with help of big data. Our subvio models has 35 million model parameters and trained for three months on GPU enable devices using 2.3 billion test tokens(is available as open-source data now). Test tokens are collected with help of rigorous preprocessing, within induces providing of Subvection of GPU enable devices using 2.3 billion coller parameters of a formation of non-panies and industris, listed on US-based social news aggregation online portal called "Reddit". After shortIsting, millions of bubmission of users during the registry and any data of the collect the URLs and the 1.3 million working URLs are schrifted. Business test is pansed, cleaned, and converted into word embeddings out of uniform resource locator (URL). The result shows that both models: conditional interactive and randoms sampling, generate test paragraphs that are grammatically accurate and stick to the given topic. © 2022, The Author(s).	10.1186/440537-022-00663-7	https://www.scopt.com/invard/record un?ede- 21.0543142336888.doi:10.1186/K21440537-022- 00663- 78partner/10-408.md5-a778/919484c9eef22a842e 1cb5acbb2
G. H. Kim, Kim, B., Jeong, J. H.	THE EFFECTS of HOME: ASSED COGNITIVE INTERVENTION INTERVENTION ON BRAIN FUNCTION IN PATIENTS with AMNESTIC MILD COGNITVE IMPAIRMENT	Journal of Prevention of Alzheimer's Disease	2022	9	•	5240	adult, attention, beta rhythm, brain function, calculation, cognition, conference abstract, controlled study, demography, electroencephalogram, executive function, female, human, language, major clinical study, male, memory, mental performance, mild cognitive impairment, neuropsychological assessment, automized assessment, automized procedure	Background and Purpose: Cognitive intervention (1) has been known to improve cognition and to delay cognitive details in patients with mild cognitive impairment. The purpose of this study was whether our newly developed, how based O with a chat bot for 12 weeks changed brain function and cognitive performance in patients with annexits mild cognitive impairment(1)(4). Whethods A single blanck based C Jorganity meet developed in 2 patients with annexits MC. Participants were randomized to the two groups. The C with Ata bot (1) (19-30) group and wallatic control group into the control units groups, A total of 13 chatta based C Jorganity meet developed traffic for farming mem, (14). Queues, A total of 13 chatta based C Jorganity and the state of C (10) (19-30) group and wallatic control group into a discontext of the state	10.14283/jpad 2022.97	https://www.embase.com/search/resultSzubation wiewewcotfakielog3973318.fforme.poprt, http://dx.doi.org/10.14283/jpad.2022.97
J. H. Kim	Search for Medical Information and Treatment Options for Musculoskeletal Disorders Uthrough an Artificial Intelligence Chatbot: Focusing on Shoulder Impingement Syndrome		2022		(Kim J H., kemakjh @naver. com) Spine&S leep, Researc h & Develop ment, KOREAT ECH Corpora tion, South Korea		adult, artificial intelligence, datatot, service, human, mesical information, muscloskidetal disease, natural language processing, ervelanene, risk factor, shoulder impingement syndrome	Background: The ChatCPT is an antificial intelligence chatbot that processes natural language text learned through renformerent learning based on the CPT-35 architecture, a language rough Natural language processing models are being used in various fields and are gradually expanding their use in the medical field. Purpose: This study aimed to investigate the medical information or transment options that CAGPT can provide the CS. Method: Using CAGPT, which is provided as a free beta test, messages related to SS were entered, and responses to medical information or transfer with were received and analyset?. Result: ClassIPT not only provide aniwers to the definition, providers, and its factors of SS, tak- abo symptoms, disease with aimiar symptoms, and orthopedic tests according to the message input. Additionally, sits of transment options to patients unificative tests. Strokewere, caution is required as it contains content that may be biased or inappropriate linearian for practines with SS. Nevertheese, raturative anguage testing technology develops further, it is expected to be able to express more detailed medical information and treatment options.	10.1101/2022.12.16.22283512	https://www.embase.com/search/results/abattion viewewcord/kiel.2020/55078/forme-export. http://dx.doi.org/10.1101/2022.12.16.22283512
Y. J. Kim, Delisa, J. A., Chung, Y. C., Shapiro, N. L., Kolar Rajanna, S. K., Barbour, E., Loeb, J. A., Turner, J., Daley, S., Skowlund, J., Krishnan, J. A.	Recruitment in a research study via chatbot versus telephone outreach: a randomized trial at a minority- serving institution	Journal of the American Medical Informatics Association	2022	29	9 1	. 149-154	chatbot, telephone, adut, article, comparative study, female, human, male, outcome assessment, questionnaire, vaccination, vaccine hesitancy	Chatbos are software applications to simulate a conversation with a person. The effectiveness of chatbos in facilitating the recruitment of tavity participants in research, specifically amount gracial and ethics minorities, is unknown. The objective of this study is to compare a chatbot versus thelphone-based recruitment in enrolling research participants from a predominantly minority patient population at an unknown institution. We randomly allocated adults to review either chatbot or telephone-based outreach regarding a study about vaccine hestiancy. The primary outcome was the proportion of participants who provided consent to participants in the study. In 35 participants, the proportion who answered constat attempts was significantly lower in the chatbot versus telephone group (aboute afference -21.8%, 95% confidence interval [0] -27.0%, 16.5%, P-0.0001, The consent to participant site with a nanowered a contact attempts who answered a contact attempts who answered a contact attempts was not significantly lower and in the chatbot versus telephone state attempts with chatbot compared to telephone-based contract. The difference in consent rates was also and significantly over the chatbot versus telephone state attempt, the difference in consent rates was not significantly lower and the state software rate was lower with chatbot compared to telephone-based contract. The difference in consent rates was due to a lower proportion of participants in the chatbot group who answered a contact attempt.	10.1093,jamia/ocab240	https://www.embase.com/search/resultSzubatchon werwerodrikie/102464667/Kironesport, http://dx.doi.org/10.1093/jamia/ocab240
J. Z. Kolter	AlphaCode and "data-driven" programming	Science	2022	378	8 6624	1056	applied science, data set, Article, data driven programming, data processing, data science, language, large language model, model, prediction, coffueroe		10.1126/science.add8258	https://www.scopus.com/inward/record.uri?eid=2- s2.0- 85143571175&doi=10.1126%2fscience.add8258&p artner/D=40&md5=ff023a074ad2f14fd5d508ccf1b5 9707
A. Krithara, Nentidis, A., Bougiatiotis, K., Paliouras, G.	BioSco.Or. A manually contect corpus for Biomedical Question Answering		2022		(Krithar a A., akrithar a dejit.de mokrito s.gr; Bougiat A.; Bougiat A.; Bougiat A.; Bougiat A.; Bougiat A.; Bougiat A.; Palioura s.G.) Institute of Informat tics and tics and tics and tics and tics and tics and tics and tics and Center for Scientifi c Research h "Demok		answering service, pold standard, human experiment, information retrieval, language, running	The BioKS question assessing (QA) benchmark distast contains question in Engliph, along with polien standard (reference) assesses and indicated material. The dataset has been deligned to refer are information needs of bounded apperts and is therefore more realistic and challenging than most existing datasets. Furthermore, unlike most pervises QA benchmarks that contain only exect showers: the BioSAC Adataset data include iside along with refer summaries, unlike most pervises QA benchmarks that contain only exect showers: the BioSAC Adataset data include iside along with refer summaries, unlike most pervises QA banchmarks that experiments, as well as concepts that are useful in concept-to-text Natural Language Generation. Researchers working on paraphrains; and retuit entatiment can dispect, which are useful for findows inprove the privace the biometical QA systems. Last but not least, the dataset is continuously extended, as the BioASQ challenge is running and new data are generated.	10.1101/2022.12.14.520213	http://www.embas.com/ara/frist/d3/bibdfod wiewreord/Ri-L022245998/from-export http://dx.doi.org/10.1101/2022.12.14.520213

M. A. Kuhail, Thomas, J., Alramlawi, S., Shah, S. J. H., Thornquist, E.	Interacting with a Chatbot-Based Advising System: Understanding the Effect of Chatbot Personality and User Gender on Behavior	Informatics	2022	S	9 4	1	authenticity, chatbot behavior, chatbot personality, engagement, human-computer interaction, trust, usage intention	Calabito with personality have been shown to affect exgagement and user subjective satisfaction. Yet, the design of next chabitot focuses on unclicability and scarces rather than in in tereprenois (annumation site). Esting studies on personality-indued chabitot show mostly assessed the effect of chabito personality on user preference and satisfaction. However, the influence of nation personality on behavioral qualities, such as user's further expension. The approximation of the studies of a personality-indued chabitot show mostly assessed the effect of the personality on user preference and satisfaction. However, the influence of nation personality on behavioral qualities, such as user's personnel with the personality-indued chabitot show in acategories. The dispersion of the chabitot, Each version, vetted by psychology esperts, represents one of the three dominant trats, agreeablence, consideritionures, and extraversion. The experiment visual student who interacted with three dispersion dispersion of the chabitot. Each version, vetted by psychology esperts, represents one of the three dominant trats, agreeablence, consideritionures, and extravers ion. The experiment visual student who interacted authenticity and intended engagement, while student gender databot personality or hour databots. Our indings is that a positive impact of chabitot personality indived chabitos. Our indings is that a positive impact of chabitot personality indived chabitos. Our indings is that a positive impact of the authories of processity processity processity processity and the theories of processity in interview. The expensition of chabitots personality indived chabitots. Our indings is the authories.	10.3390/informatics9040081	https://www.scopus.com/inward/record.uri7eid=2- 2-0- 85144744668.doi=10.3390%7.Informatics004006 18.partner0=-408.md5=20c0b4f8dddb23ae14c514 5fcbc0008
S. Kumar, Sumars, T. R., Yamakoshi, T., Goldstein, A., Hasson, U., Norman, K. A., Griffiths, T. L., Hawkins, R. D., Nastase, S. A.	Reconstructing the cascade of language processing in the internal computations of a transformer- based language model		2022		(Kumar S., sreejank Goldstei n A.; Hasson U.; Norman K.A.; Nastase S.A., snastase @prince ton.edu] Princeto n Neurosc ience Institute , Princeto n Universi		adult, attention, brain cortex, brain function, comprehension, decomposition, embedding, female, functional magnetic resonance imaging, human, human experiment, language processing, male, prediction	Precise together the meaning of a marative requires understanding not only the individual works but also the intricate relationships between them. How does the barin construct his kind of rkd, contextual meaning from matural language. Recently, a new class of artificial neural networks based on the Transformer architecture-has revolutionized the field of language modeling. Transformers integrate information across works via multiple langues of structure discut computations, forming increasingly contextualized representations of linguistic content. In this paper, we deconstruct these draw computations and analyze the associated "transformation" (across works via multiple languistic and the structure) and analyze the associated larger to provide a fine-grained window onto linguistic computations in and avalapte the associated structure and that that acquired while participants its discuss the structure and that the text architecture and the structure of linguistic computations and analyze the associated solutes in the model mapping onto higher-level language area in the brain. We then decompose these transformations in this individual, functional y structure and and demonstrates of the anguage area in the than. We then decompose these transformations in the individual functional y structure and	10.1101/2022.06.08.495348	http://www.embase.com/sear/iresid7s/ubstite evieweerodf&i=10034545578/forme=port, http://dx.doi.org/10.1101/2022.06.08.495348
T. H. Kung, Cheatham, M., Medenilla, A., Silloi, C., De Leon, L., Elepaño, C., Madriaga, M., Aggabao, R., Diaz- Candido, G., Maningo, J., Tseng, V.	Performance of DUSNEF Vential for Advantage Resential for Advantage Education Using Lange Language Models		2022		(Kung T.H.; Medenil Ja A.; Sillos C.; Elepaño C.; Madriag a M.; Aggaba o R.; Aggaba o R.; Aggaba o R.; Aggaba o J.; Tsug v, victor@ m) Ansibleh ealth.co m) Health, Inc,		clinical decision making. human, human experiment, language, licensing, medical education, reinforcement (psychology), United States	We evoluted the performance of a large language model called ChatGPT on the United States Medical Licensing Exam (USME), which consists of three cames: type 3, steps 2CL, add 99 and 98 a. OxaGPT performed at or next her pussing threshold for all three exams without any specalized training or reinforcement. Additionally, ChatGPT demonstrated a high level of concordance and insight in its regularations. These results specalized that large language models may have the potential to assist with medical education, and potentially, clinical decision-making.	10.1101/2022.12.19.22283643	http://www.embas.com/araf/resid7/iesid7/ubidfo weervecrofilesi2020755448/non-export. http://dx.doi.org/10.1101/2022.12.19.22283643
L Kuosmanen, Vartiainen, A. K., Nieminen, H., Kostenius, C., Bond, R., Mulvenna, M., Potts, C., Ennis, E., Malcolm, M., Vakaloudis, A., Cahill, B., Dhanapala, I.	Development process of artificial intelligence based chatbot to support and promote mental wellbeing in sparsely populated areas of five European countries	European Psychiatry	2022	65		\$168	artificial intelligence, chatbor, controlled study, seercia, controlled study, seercia, menual health, menual health menual health, menual health service, mood, positive psychology, preliminary data, psychological well-being, set ence, university student, wellbeing	Introduction: In many countries, people face problem regarding access to care, 347 support and evidence based support. Digital interventions and services, such a statubutis, can be one proton to tack the text collaboration between mental health and interpretention of the statubutis are developed and how to ensure that there is collaboration between mental health and the statubutis are developed and how to ensure that there is collaboration between mental health and discuss the statubutis and the statubutis are developed and how to ensure that there is collaboration between mental health and the statubutis and the statubutis are developed and how to ensure that there is collaboration between mental health and the statubutis and the developed and how to ensure that the statubutis and the statubutis and how they evaluated their potential. Scored, university students is a statif, mertal health professionals and merice user (n=7) participated in workshops to design the chathor content, Finally, the content and scripts of chathat uncel and services event (n=7) participated in workshops to design the chathor content. Finally, the content and scripts of chathat uncel and even user (n=7) participated in workshops to design the chathor content. Finally, the content and scripts of chathat model possible synthegy and on the idea that we all have merital health which needs boosting and support from time to time. Chathal includes: relevant mental health information, excitis, model areas and singen monoticing and service that are lacking of are insufficient. Chathad lactatot offers an option to offer support in areas where other mental health services are lacking or are insufficient. Chathad lactatot distatot end is independition barries and triat similar in the statubet. Health minimary results of 4-week and subsequent 12-week in the wind that will be in place at the time of IFN 2022 contenence.	10.1192/j.eurpsy.2022.446	https://www.embaec.com/seriol/resultSzbabtion velewrecordiki_colo868648.kfm-report, http://dx.doi.org/10.1192/j.eurpsy.3022.446
K. Kuppusamy, Eswaran, C.	Convolutional and Deep Neural Networks based techniques for extracting the age-relevant features of the speaker	Journal of Ambient Intelligence and Humanized Computing	2022	13	12	5655- 5667	ASR, CNN-DNN, Prosodic features, Speaker age, Spectral features, Convolution, Convolutional neural networks, Learning systems, Speech recognition, Googler, Natural languages, Network-based, Relevant features, Spectral feature, Voice-recognition systems, Deep neural networks	With the advent of conversational voice recopition systems such as Alexa, SIR, OK Google, etc., natural language conversational scheme including: Chataboar and voice recopition systems are in new high and determining the age of a spaces critical for setting the pertinent context. Age can be inferred from the speech signal by inferring various factors such as physical attributes of voice, injugatist attributes, the requency, speech net, etc., This speer discusses on extracting the spectral features of speech such as Capstral Coefficients, Spectral Decreases, Centrol, Flatones, Spectral Entropy, Jitter and Shimmer as inputs which would also helps in classifying speake are phrough deep learning techniques, a none paraceh is addressed along with the model for implementation using Deep Neural Network and Convolutional Neural Network for classifying the features using three affirtered classifies. The results databet from the regredow space when your the speaker age recognition. © 2021, The Author(s), under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature.	10.1007/s12652-021-03238-1	https://www.scopta.com/inward/record un?ied=2- isz.0=505232665&doi=10.1007%z1512652-021- 0228- 128partner/0=40&md5=3a577cddf85ba4b10d72f89 19fa4626
G. Laban, Araujo, T.	Don't Take it Personally: Resistance to Individually Targeted Recommendation form Conversational Recommender Agents		2022			57-66	Anthrogomorphism, Chatbucz, Comrestational Agents, F. commerce, Personalization, Privacy, Recommender Systems, Trust, Electronic commerce, Risk perception, Human like, Intelligent recommender system, Personalizations, Recommender agent, User resistances	Conversional recommender agents are attificably intelligent recommender systems that provide users with individually- tablord recommendations by traceting individual needs and communicating in a Noving dialogue. These are videly available online, communicating with users while demonstrating in Noving dialogue. These are videly available about the effect of the anthropomorphic uses on user's relations to the system and recommendations. Accordingly, this study examined the extent to which conversational recommender agents' anthropomorphic cues and the trisk of using particular dialogue and system-initiated in Interview stars' generations of conversations and one experiment was conducted among users with conversational recommender agents and we be commended partors that provided user-initiated or system-initiated restaurant recommendations. The results entail that user-initiated recommendations, compared to system-initiated, are less likely to affect user s'estimate to the system and are more likely to affect their adherence to the recommendations provided. Furthermore, the study's findings suggest that these effects are amplified for conversational recommendations provided. Furthermore, the study's findings suggest that these effects are amplified for conversational recommendations provided. Furthermore, the study's findings suggest that these effects are amplified for conversational recommendations provided. Furthermore, the study's findings suggest that these effects are amplified for conversational recommendations provided. Furthermore, the study's findings suggest that the effects are anythered to recommendations provided. Furthermore, the study's findings suggest that the effects are amplified for conversational recommendations provided. Furthermore, the study's findings suggest that the effects are anythered to recommendations provided. Furthermore, the study's findings suggest that the effects are anythered to recommendation provided to recommendations for the study's findings suggest that the effects are	10.1145/3527188.3561929	https://www.scopus.com/inward/record_un?eld=2- 2-0 85144606608.doi=10.1145%219527158.35619298 partnert0=0&Bmd5=72e8427C5a776f13b97C5e351e ff2bd7
D. Lee, Yeo, S.	Developing an Al- based chatbot for practicing responsive teaching in mathematics	Computers and Education	2022	191			Elementary education, improving classroom techning. Pedegotaria issues, Simulations, Teaching/Retening strategies, Curricula, treative methods, Teaching/Retening strategies, Teaching, Chatos, Design features, Mathematical reasoning, Preservice teachers, Simulation, Teaching/Ilearning strategy, Students	Response tracking promotes students' mathematical reasoning and positive attitudes toward mathematics. Due to the complexity of the varies of teaching, preventice teachers (FS) have been provided with approximated coparabilities to particular response tracking skills in teacher education programs. Although increasing demand for adaptive learning reinforces the need for reason's on artificial intelligence (a) in decision, there have been free approaches that engaged Earning in teaching statematics in meaningful interactions. Our goal was to develop an Al-based chatoot that engaged PSTs in an authentic, meaningful, and open-ended teaching situation teachers PST: response teaching skills, septically questioning skills through approximations of particular design-based research, we canniced 1 design features and structure of the chattor). Journage or users (milling 1), pSTS questioning patterns, and 4) users' experiences. Two fleations of design, implementation and evaluation took place in an elementary mathematic education methyle covered PST's questioning elements and there in the simalitie response, who plan allowed cover and provide them into the smallest meaningful intensis of answer and prepared corresponding responses, to each intent. At the fuel intention, the relined chattot adequalities cover and PST questions and provider relinities responses, who plan during intensis of the found a pattern of and allowed questioning patterns and use perceptions, including sequential responses, informing responses, and personification. Implications, design features, and limitations are discussed. © 2022 Elsevier tid	10 1016/j.compedu 2022 104646	https://www.scopus.com/inward/record.un?bid=2- 2-0- 8513880470558doi=10.1016%2f(.compedu-2022.10 46468.putrenti=0-808.md5=01c7ebc55bc320591e74 88d642a87b4e
D. B. Lee, Yeo, S. H. Y.	Developing an Al- based chatbot for practicing responsive teaching in mathematics	COMPUTERS & EDUCATION	2022	191			Elementary education, improving darstrom teaching, Pedagogical issue; learning strategies, DESGM- MASCD RESARCH, PREPARING TEACHERS, EDUCATION, TECHNOLOGY, ERRORS	Response teaching promotes students' mathematical reasoning and positive attitudes toward mathematics. Due to the complexity of the work of teaching, preservice teachers (FST) have been provided with approximate top particular to responsive teaching stills in teacher edu-cation program. Although increasing demand for adaptive learning reinforces the need for research on attificial intelligence (A) in education, then have been for waydow characteristical ensaming the meaningfu interactions. Our goal was to develop an A-based chatton that engaged FSTs in an authentic, meaningful, and open- ended teaching isolation to enhance FST: reproduce teaching stills, specifically quescillar state and the provident of the provident state of the provident state of the provident state of the presence of users' numbers of practice. The chatbot was designed to act as a virtual student who displayed misconceptions on the topic of fractions. By employing design-based research, we ensumed 10 design features and structure of the chatbot 2; oursers of users' numbers in STS's questioning patterns, and 4) users' experiences. Two iter-ations of design, implementation and evaluation took place in an elementary mathematics du-action method course. To built the chatbot ve qualitatively analyzed the training data, categorized them into the smallest meaningful intenti of users, and prepared corresponding re-sponses to each intent. At the final iteration, the reliand chatbot designed course is not intended reliabilist responses, built found a pattern of PSTs asking similar questions repeatedly in the conversation and activation and provider that each on proved questioning patterns and user perception, including sequential responses, informing responses, and personification. Implications, design features, and limitations are discussed.	10.1016/j.compedu.2022.104646	

J. S. Lee	The Effectiveness of Bidirectional Generative Patent Language Models		2022	362	2	194-199	Artificial Intelligence, Deep Learning, Natural Language Generation, Natural Language Processing, Patent, Computational Iniguistics, Natural language processing yestem, Patentis and inventions, Generative model, Human-centric, Language model, Language processing, Natural languages, Training data	Generative patient loggage models can assish humans to write patient text more efficiency. The question is how to measure effectiveness (non-human-contric prepricate and how to import efficiency in this manufact, as implified design of adocomplete function is proposed to increase effectiveness if y more than 10% with the simplified setuing the adocomplete function is proposed to increase effectiveness of the simplified setuing the writing patient text does not meets and Social with the simplified setuing the simplified setuing the adocomplete functions are particularly which means that more than 50% of leptonics can be side they autocomplete. Since writing patient text does not necessarily start from the beginning to the end, a question is written the generative models become bidirectional. Since text generation is bidirectional, the calculation ad accomplete effectiveness can be bidirectional and tarts from anywhere in the text. After through experiments, a key finding is that the autocomplete effectiveness of a models for the same text remains similar no matter where the calculation advections. The finding indicates that such bidirectional models can assist a user at a similar level, no matter where the user starts to write. ® 2022 The authors and IOS Press.	10.3233/FAIA220466	https://www.scopus.com/inward/record.uri7eid=2- 2-0- 8518659514.8doi=10.3233%2FAIA2204668partn. erl0-408md5=fb20442bbcb677000a743d455e36e bab
X. Li, Xie, S. , Ye, Z., Ma, S., Yu, G.	Investigating Patients' Continuance Intention Toward Conversational Agents in Outpatient Departments: Cross-sectional Field Survey	Journal of Medical Internet: Research	2022	24	. 13		chatoto, adult, article, controlled study, conversation, cross-sectional study, demographics, discriminant validity, doctor better telavionaly, numa, sederamistion prisen, interpersonal controllation, major dinical study, male, open ended questionnaire, outpatient department, personalized medicine, public patient astrifaction, personalized medicine, public patient astrifaction, personalized medicine, public sustainable development, questionnaire, self care, sustainable development, hematic analysis, voice recognition	Background: Conversational agents (LoS) have been developed in outpatient departments to improve physician-patient communication effective, X end user, a platent's continuance intention is essential for the sustainable development of CAs. Objective: The aim of this study was to facilitate the suscessful usage of CAs by identifying key factors influencing patients' continuance internation. This study opposed an extended and empirically issued and the substainable development of CAs. Objective: The aim of this study opposed an extended the model via a cross-actional field aurey. The quasilonnais included development of the study was to facilitate the suscessful usage of CAs by identifying key factors influencing patients' continuance internation; multiple intervals, and an opposite placement of quasitors no patients' specific expectations to CAse. Datapaties of the study of the	10.2196,40681	https://www.embase.com/seard/resulf3zbabtion weewcordsile_1022/2561078/brome-sport, http://dx.doi.org/10.2196/40681
J. M. V. Lim, James, V., Yeo, Y. J. E., Low, Y. M., Chew, Y. R., Ganapathy, S.	Neonatal presentations to the paediatric emergency department in Singapore	Singapore medical journal	2022	63	. 11	L 667-673	child, hospital discharge, hospital emergency service, hospitalization, homa, infant, envoluen, retrospective study, Singapore	Introduction: This study aimed to characterize enotable jaedatric emergency department (FB) yords, analyse the main prediatric linesses and establish associations of these demographics and the study inside analyse the main prediatric linesses and establish associations of these demographics and the study series of the study and the study of the study of the study of the study of the study and the study and the study and the study of the study and the study of the study and the study and the study analysis of the study and the study and the study and the study and the study and the study and the study and the study and the study and the study and the study and the study	10.11622/smedj.2021160	http://www.embase.com/acato/insult3zubaction ~iewiewieconfikid=E36355598.from=export, http://dx.doi.org/10.11622/inmelg.2021160
S. M. Lim, Shiau, C. W. G., Cheng, L. J., Lau, Y.	Chatbot- Delivered Psychotherapy for Adults With Depressive and Anxiety Symptoms: A Systematic Review and Meta-Regression	Behavior Therapy	2022	53	; 2	2 334-347	biomedical software, chatbay, Comprehensive Meeta-Analysis 3.0, adult, analety disorder, Autatot delivered psychotherapy, clinical examination, clinical trial (topic), confidence intervol, expression, effecti site, evidence based medicine, problem solving, program effectiveness, psychotherapy, randomized controlled trial significance, statistical significance, statistical significance, statistical	Although psychicherapy is a well-established treatment for depression and anxiety, chalch-delivered psychicherapy is an emerging field that has ver to be explored in depth. This reveals with (a) descrime the effectiveness of tabloci-delivered psychicherapy in improving depressive symptoms among adults with depression or anxiety, and (b) evaluate the preferred features for the description of chalch-delivered psychicherapy. [The determined using zational table challenges and controlled trails. Meta-analysis and random effects meta-regression was conducted using Comprehensive Meta-Analysis 3.0 software. Orecard feature was measured any freques 1 and table technical table statistics a significant device of p-2.6. Assessment of heterogeneity was done using 12 and 12 tests. A meta-analysis of 11 trails revealed that chalch-delivered induced statistics and the statistic statistic and the statistic statistic and the statistical displant assignificant single difference were detected, musit revealed larger effect tables than the calcular displant or depression, chalches with an embodiment, a combination of types of inpair and output formats, less than 10 sessions, regression, databit are institutions and inflatent restment for depression and anxiety. More high-using traits warranted to confirm the effectiveness of chalthoc-delivered psychotherapy on depressive symptoms. PMOSPERD registration number: CRD42020153332.	10.1016/j.beth.2021.09.007	https://www.embase.com/search/result3s/abaction werevecrofik-icu/10597/2468/formesport, http://dx.doi.org/10.1016/j.beth.2021.09.007
Z. Lin, Akin, Hi, Rao, R., Hie, B., Zhu, Z., Lu, W., Smetanin, N., Shmueli, Y., dos Santos Costa, A., Fazel- Zarandi, M., Sercu, T., Candido, S., Rives, A.	Evolutionary- scale prediction of atomic level protein structure with a language model		2022		(Lin Z.; Akin H.; Rao R.; Zhu Z.; Lu W.; Smetani n N.; Verkuli R.; Kabeli O.; Kabeli O.; Kabeli O.; Kabeli Y.; Fazel Zarandi S.; Rives Zarandi S.; Rives A., arives@ meta.co M.) Meta A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. A., Arives. Ariv		amino add sequence, conformation, human, human experiment, language, metagenomics, prediction	Artificial intelligence has the potential to open insight into the structure of proteins at the scale of evolution. This only recently been possible to extend protein schure prediction to two hundred million cataloged proteins. Charactering the structure of the exponentially growing billions of protein sequences revealed by large scale gene sequencing experiments would necessitate a breaktrough in the speed of folding. Here we show that direct inference of structure from primary sequence using a large and a breaktrough in the speed of folding. Here we show that direct inference of structure from primary sequence using a large large model enables an order of magnitude speed sign in kip resolution structure prediction. Leveraging the insight that language models lene volutionary patients across millions of sequences, we train modes up to 158 parameters, the larget language model is extructure of a protein as close million and accuracy, Building on this, we present the ESM Metagenome. A Has, This is the first Large-cale structure of a protein at the resolution of models up to 158 parameters, the larget the first large-cale structure of a protein at the resolution of models up to 158 parameters, the larget the first large-cale structure of a protein at the resolution of models up to 158 parameters, the larget the first large-cale structure of a protein at corresp. Building on this, we present the ESM Metagenome. A Has, This is the first large-cale structure. The atlas means the model structure is approximation of metagenome of these structures are novel in comparison with experimentally determined structures, giving an unprecedented view into the visit breadth and diversity of the structures of some of the least understood proteins on earth.	10.1101/2022 <i>0</i> 7 20.500902	http://www.embase.com/seat/risult3-/ubation wiewevordiki-Loui07701648/neweport, http://dx.doi.org/10.1101/2022.07.20.500902
Z. H. Lin, Li, G. O., Zeng, X. J., Deng, Y., Zhang, Y., Zhuang, Y., Zhuang, Y. T.	A Stylized image Caption Approach Based on Cost-Media Disentangled Representation Learning	Jisuanji Xuebay(Chnese Journal of Computers	2022	45	12	2 2510-2527	Cross-media, Disentangled prepresentation learning, Machine learning, Natural language generation. Sylited image caption, Classification (of information). Computer vision, Convolutional neural algorithms, Learning systems, Languistics, Modal analysis, Ulanguistics, Modal analysis, Natural language processing systems, Signal networks, Natural language processing taburo. Linguistics styles, Machine-learning, Natural language, Deep learning	The task of splited mage caption aims to generate a natural language deciption that is semantically related to a given image and consistent with a given linguistic type. Both requirements make this ski splitning more difficult than the traditional image caption task. However, with the availability of the large-task image test corpor and advances in deep learning techniques of comparet vision and natural language processing. However, landless the splitness and challenges of the styles image captor model to usually an encoder decoder architecture. The model inputs go through many layers of non-inners transformations, e.g. RetU layer in the comolutional Neural Networks (CNN), to yield latter regresentations. This makes the latter regresentations and parameters of model last interpretability controllability, which can restrict the understanding of this task and its further improvement. In this paper, we focus on the problem of understanding and controlling gen crossing. Network: In stylue of mage caption models by teaming distantaged regresentations. Disting dista structure. How to disertangide the latent space of non-interact language processing. Network: In stylue dimage caption models by teaming dista structure. How to disertangide transpace models dus still measure generosism. Devolve: In stylue dimage caption models by teaming dista structure. How to disertangide transpace and tasks. Involved to late an argeneentations. Dargenee and explications of dista structure. How to disertangided structure split of models dus still measure dista structure. How to disertangided Stylutical mage Caption (DGL), to larm the dista structure is and explications of dista structure. How to disertangided structure dista structure dista structure is the structure in the structure is and explications of dista structure. How to disertangided structure dista structure dista structure dista structure. The structure dista structure is dista structure. This tasks is the structure dista structure dista structure dista struc	10.11897/SPJ.1016.2022.02510	https://www.scopus.com/inward/record_un?etid=2- 2-0 851445667284oi=10.11897%CISP_I_1016.2022.02 5058partnet ⁻¹⁰⁻⁰⁴⁸ md5-21785793a42dd148ee29f 72939314518
N. F. Lindemann	The Ethics of 'Deathbots'	Science and Engineering Ethics	2022	28	ί €	5	Chatbots, Death, Deathbots, Ethics of Al, Grief, advertiling, axistly, emotion, ethical theory, human, morality, Emotions, Humans, Morals	Recent developments in Al programming allow for new applications: individualised drathots which minic the speaking and writing behaviour of one specific linic or ded percon. Centrality characteristic deals have already bean individualised are currently under development by the first start-up companies. Thus, it is an ugent issue to consider the tethical implications of deathots. While pervisos shired intervisor of deals that already subar share barrent to the eligibility of decased, jurpopose to shift the focus on the dignity and autonomy of the breaved users of deathots. They are legitibility of decased, jurpopose to shift the focus on the dignity and autonomy of the breaved users of desthots. They are negative impacts on the peried process of breaved users and therefore have the potential to limit the emotional and psychological welleng of their users. Desthots users are likely to decome dependent on the bots which may make them susceptible surgestitions adverting by deathots providing companies and may limit their autonomy. At the same time, desthots may prove to be helpful for people who suffer from prolonged, severe grief processes. La cution against the unrestricted usage of detabbits and suggest that they should be classified as medical devices. This classification would not the least mean that their non-harm, as well as their helpfulses, for peoples usifient from prolonged grief needs to be proven and that their potential for autonomy infringements is reduced. D 2022, The Author(s).	10.1007/s11948-022-00417 x	http://www.scopar.com/nwwa/recod uu?ide3- 20.4514231008&doi-10.1007%2/511948-022- 00417- Xapartner/10-408/md5-7091c7/e3806/f0s16055304 241649eda

N. Ludin, Holt-Quick, C., Hopkins, S., Stasiak, K., Hetrick, S., Warren, J., Cargo, T.	A Chatbot to Support Young People During the COVID-19 Pandemic in New Zealand: Evaluation of the Real-World Rollout of an Open Trial	Journal of Medical Internet Research	2022	24	11	1	chatbot, adolescent, adult, maixty, article, cognitive behavioral therapy, coronavirus, disease 2019, evidence based practice, female, human, information processing, lockdown, male, mental health, New Zealand, pandemic, positive social interaction, social support, stay-at-home order	Background: The number of young people in New Zaaland (hoteraron) who experience mental health challenges is increasing. As those in noterane wint in the Initial CoUPO 3 lockdown, an engoing digital mental health project was adapted and underwent rapid content autoring to create the Aroba chaltoch. This dynamic digital support was designed with and for young people to help manage pandemic-related worr, Objective-Aroba was developed to runder panatice-based tools for anakety management using cognitive behavioral therapy and poolite psychology. The chaltot included practical dess to maintain social and clarat connection, and to stary active and We. (Metods: Sup-Ahemo creds nucler Acteors's lockdown commercised on March 20, 2020, by leveraging previously developed datatot technology and broader existing online trial infrastructure. Lev Aroba chaltot was submediate. PM 7, 2020, Disemination of the chaltot of an open trial was via a URL, and feedback on the experience of the biochdown and the experience of Aroba was gathered via online questionnaires and a froco groups, and from community members. Results: hut tauklos and motive de givenerit of 1234 years), feedback guided treats use at regorous content autoing to sub the dynamic Laudous and motive de givenerit of 1234 years), feedback guided treats are at econordia intents. Conclusions: The experience of the implementation of the Aroba chaltot highlights the feasibility of provides (mission gate) distantions and motivated engineering to Aroba chaltots highlights the feasibility of provides (mission gate) distantions and motivated engineering to Aroba chaltots highlights the feasibility of provides (mission gate) distantions and motivated engineering to Aroba chaltots highlights the feasibility of provides (mission gate) distantions and motivated engineering to Aroba chaltots highlights the feasibility of provides (mission gate) distantions and the technology requirements for a flexible and enabling chaltot architectural framework.	10.2136/38743	https://www.embase.com/search/resultSrubatchu verwercort&i=0222660124for018/mesport, http://dx.doi.org/10.2196/38743
D. H. A. Mai, Nguyen, L. T., Lee, E. Y.	TSSNote- CyaPromBERT: Development of an integrated platform for highly accurate promoter prediction and visualization of Synechococcus sp. and Synechocoystis sp. through a state- natural language processing model BERT	Frontiers in Genetics	2022	13			genomic DNA, transcription factor, article, cyanobacterium, decision making, deep learning, DNA sequence, Ischerichia coli, bubacterium limosum, human, natural language promoter region, protein DNA processing, prediction, promoter region, protein DNA interaction, protein DNA synechococcu, Synechococcu, Synechococcu, Synechococcu,	Since the introduction of the first transformer model with a unique self-attention mechanism, natural language processing (NP) models have stated state-of-the-st (SOA) performance on various tasks. A SOA is the bulgering to viewed as an unusual language, with its characteristic lexicon and grammar. Therefore, NLP models may provide insights into the meaning of the sequential structure of DNA. In the current tudy, we employed and compared the performance of popular SOTA NLP models (Le., XINET, IBST, and a variant DNABERT trained on the human genome) to predict and analyze the promoters in firehwater consolaterium synchrodystis (Jp. CGB) and the Istates growing consolaterium Synchococcus elongatus sp. UTEX 3737. These freshwater cyanobacteria are promising hosts for phototrophically producing value-added compounds from COL Through a custom pointe, promoters and non-promoters for mis-Nurchoccus and parts with promoters in methyland synchrodystis (Jp. CGB) and the Istates of 0.93 and F1 score of 0.93. The infrastructure accessibility, we developed an integrated platform (TSSotie-CyaPromBRIT) to facilitate large dataset extraction, model training, and promoter prediction from plate (BNA-bac States Intermore, visualization tokina been incorporated to address the "back bac" issue of deep learning and Fasture analysis. The learning trainder aduity of large language models may help identify and analyze promoter regions for newly toldated strains with similar lineages.	10.3389/fgene.2022.1067562	http://www.embase.com/sarch/results/butching wiewrecotAid=2005747234frome=export, http://dx.doi.org/10.3389/fgene.2022.1067562
S. Manghani	Notes on Structuralism: Introduction	Theory, Culture and Society	2022	39	07. Au	g 117-131	Al statistical turn, Claude Lévi Strauss, Jonathan Culler, Mary Douglas, narrative, Roland Barthes, structuralism	This commertary introduces a section of the journal titled Notes on Structuralism'. It centres around two interviews. The first, from 1997, is with the tructural anthropologica Mary Douglas (who speaks on various aspects of her work, including on Purify) and Danger). The second is an interview with Roland Barthes, who, speaking in 1956, was at the height of his structuralist phase. The interview for locusing upon Herviews are supplemented with Introductions and: a commentary on Barthe' interview by Jonathan Caller, who contextualises the development of Barthe's thinking and anarbic (as it leads to the publication of \$12,7). The structural caller barthe thinking structure is the publication of \$12,7]. The structural callers of the relative than the structural callers of the structural ca	10.1177/02632764221141823	http://www.scopus.com/inward/record_uri?eid=2- 52.0- 52.0- 53.1477795798.doi=10.1177%21026327642211418 238.partneriD=40&md5=2c00059a26545ce9361469 080ee5680b
D. Manna, De Sarkar, T.	Sustainable development initiatives in libraries: A critical analysis	ANNALS OF LIBRARY AND INFORMATION STUDIES	2022	69	2	4 282-293	Acoustic management, Carbon footprint, Chatbot, Crowd funding, Energy Conservation, Green library, Robotics, Sensor, Sustainable goals, GREEN, SERVICES	The purpose of the present study is to give an overview of the sustainable development (SD) initiatives observed among the selected librarie around the work1. The present study employed a web-based context analysis method among the selected academic and public libraries to investigate the adherence of features of the green library. Based on the survey of library websites and reviewing related librarium, the study identified the parameters contributing to the sustainable development intent of the library. With examples, this study also showcases the current practices blowed by the libraries to implement green library strategy. Moreover, the challenges faced by the libraries in their effort to go green was also identified and discussed. The overview of SD initiatives among different libraries a displayed in the suby will improve the understanding of the adoption of green indicators by the librarian and information science professionals.	10.56402/alis.v69i4.66044	
M. S. Marcolino, Diniz, C. S., Chagas, B. A., Mendes, M. S., Prates, R., Pagano, A., Ferreira, T. C., Moreira Alkmim, M. B., Alves Oliveira, C. K., Borges, I. N., Raposo, M. C., Ribeiro, I. B., Rocha, G. M., Cardoso, C. S., Pinho Ribeiro, A. L.	Syndhronous Tedeoxnulation Tedeoxnulation Service Targeting COVID-19: Leveraging Ingights for Postpandemic Health Care	JMR Medical Informatics	2022	10	1;	2	COVD-19, delivery of health cree, digital health, mobile health, primary health care, public health, remote care, remote consultation, telemonitoring, text message, usability	Biologround: Atthough a great number of teleconsultation services have been developed during the COVD-13 pandemic, studies assessing usability and health are provider statistiction are still indipent. Objective: This study wind to describe the development, implementation, and expansion of a synchronous teleconsultation service targeting patients with symptoms of COVD-13 in final, we wall as to assess the development and variations. The short service targeting patients with symptoms of COVD-13 in final, we wall as to assess the development and variations. The short service targeting patients with symptoms of COVD-13 in final, we wall as to assess the development and variations. The short service targeting is the short Obstrabulis, (1) applications and eveloped in 5 phases: (1) the identification of components, technical and functional requirements, and system architecture; (2) system and user interface development and variations. The short service is the short of Dorivo services and the short of Dorivo servic	10.2196/37591	https://www.scopus.com/inward/record un?teid=2- 2:0- 851453316538doi=10.2196%21375918.partnerf1=4 D&md5=b3185e1169aa7425c8e880ed094972e2
M. S. Marcolino, Dinit, C. S., Chagas, B. A., Mendes, M. S., Prates, R., Pagano, A., Ferreira, T. C., Alkmim, M. B. M., Oliveira, C. R., N., Raposo, M. C., Reis, Z. S. N., Paixao, M. C., Ribeiro, L. B., Rocha, G. M., Cardoso, C. S., Ribeiro, A. L. P.	Synchronous Teleconsultation and Monitoring Service Targeting COVID-19: Leveraging Insights for Peotpandemic Health Care	IMR MEDICAL INFORMATICS	2022	10	12	2	COVID-19, telemonitoring, remote consultation, telemedicine, primary health care, delivery of health care, telehealth, tear in message, mobile health, public health, une mote care, dginal health, une mote care, dginal health, une care and the second second second QUALITY, ACCESS	Background: Although a great number of teleconsultation services have been developed during the COVID-19 pandemic, studies assessing usability and health care provides ratification are still incipient. Discribe: This study atmet to describe the development, implementation, and expansion of a synchronous teleconsultation stretch targeting patients with symptoms of COVID-19 in facult, as well as to assess its usability and health care professionals' astaffaction. Methods: This maked methods taked was developed in § phases; (1) the identification of components, technical and functional requirements, and system architectur; (2) system and user interface development and validation; (1) patie-testing in the only of Divinopolis; (4) expansion in the citits of Divinopolis, Testion Ocian, and Beits Interface to Universidate Federal development, technical and development, and ystem architectur; (2) system and user interface development and validation; (3) patie-testing in the diving of Divinopolis; (4) expansion in the citits of Divinopolis; (4) expansion problems constanting users were solved by introducing standardized SMs fram messages, which were sare to users to obtain hear feedoax and keep ratio of them. Linth (4) expansion provided updated information about COVID-19 and mailed emote care for thousands of patients; his (5) (3) (3) (3) (3) of d6) fabeth care provided updated information about COVID-19 and mailed emote care for thousands of patients, which evidenced the current pandemic required tas planning, imglementation, development, and updates in the system. Usability and the current pandemic required tas planning, imglementation, development, and updates in the system. Usability and astaffaction astatement was its observing validation in provinces may beginnes and tasks. The development expansion in the system standardine required tas planning, imglementation, development, and updates in the system. Usability and statiffaction astatement was key to identifying the careform. The dynamic nature	10.2196/37591	
L. Martinengo, Lum, E., Car, J.	Evaluation of chatbot- delivered interventions for self- management of depression: Content analysis	J Affect Disord	2022	319		598-607	Human; "Self-Management, Depression/herapy, Ansiety Disorders/therapy, Mertal Health, Ansiety/therapy, Chatbot, Content analysis, Conversational agent, Depression, Digital health, Mood disorders, mHealth	BACKBROUND: Conversational agents (CA) or chattots are increasingly used for depression, narriety, and welltering management. CA are considered acceptible and helpful. Neverse, Ittler is known about the adequay of CA response. This study assessed the structure, content, and user-customization of mental health CA dialogues with there saises not est is of suiside. MENDOS: We used content analysis to examine the dialogues of CA periodus/ Included in three assessments of mental health apps (depression education, self-guided cognitive behavioural threapy, and suicide prevention) performed between 2013 and 2020. Too standardized user personas with depression were developed to interact with the CA. All conversations were saved as Scenenhols, transcribed user hannes with depression thread exempts of the interact were included. Seen categories: self-induction, personalizations, appropriateneos CG response. Converging emptybing guidal, users through boosting activities, mood monitoring, suided risk management, and others. CAs could engage in empathic, non-judgemental conversations with users, offer support, a route. CAs exercised analysis on examing the exercise strategies associated with the pervisou assessment studies. CONCLUSOF Assessed CAs offered annymous, empathyme, non-judgemental interactions that align with heidense for face-to-face spychotherapy. Cds from apps stores are not suited to provide comprehensive suited risk management. Tafther research hold evaluation only if retrieved in the savel strategies health care and in enhancing suide risk management strategies.	10.1016/j.jsd.2022.09.028	
A. McStay	Replika in the Metaverse: the moral problem with empathy in 'It from Bit'	AI Ethics	2022			Jan 13	Augmented reality, Chatbot, Empathy, Metaverse, Mixed reality, Replik, Xiaoice, interests to disclose and no competing interests to declare.	This paper senses dome of computational impathy in relation to existing social open-metid childred and intervious teaches bedgessenses and interview of the sense of the sens	10.1007/443681-022-00252-7	

B. Meynard- Piganeau, Fabbri, C., Yeiganai, A., Feinauer, C.	Generating Interacting Protein Sequences using Domain-to- Domain Translation		2022		(Meyn: d- Pigane u B.; Fabbri C.; Feinau cC.; Feinau cconi h.feina er@un occoni) Depart ment c Compu ng Scienco , Boccor Instituí for Dat Scienco and Analyti S (BIDSA	ar a P U U D D D D D D D D D D D D D D D D D	amino add sequence, human, human rappriment, language, protein domain	Motivation: Being add to striktically design novel protectors of desired function is proteal in many biological and biomedical applications. Generative statistical modeling pars creatly needed to an two addigen of designing injurity and addigenees approximation of the striktical models and embedding motivation being of the striktical and protecting (100). Notewerser, most approximation striktical models and embedding motivation being of the striktical and protecting and the striktical striktical and biomedical supportances tracely motivation and an embedding motivation being and the striktical striktical striktical and the striktical striktical and the striktical striktical and the striktical striktical striktical and the striktical s	10.1101/2022.05.30.494026	http://www.smbasc.com/auxi/fireu.idt/Subladion ~viewecord8id=12022141037Bfrom-export, http://dx.doi.org/10.1101/2022.05.30.494026
A. Misro, Kadoglou, N., Mishra, N., Whittington, P., Dogan, H.	A Usability Evaluation of YouDiagnose: Artificial Intelligence Powered Physician Consultation		2022		(Misro A., draswi @gma com) YouDia nose Limited United Kingdo m	ni il. ig i,	adut, artificial intelligence, automation, cancer risk, chatbot, clinical assessment, consultation, exercise, human, patient triage, physician, quantitative analysis, questionnaire, rating scale, usability	The COVD-19 Pandemic has resulted in a forced transition to telemeticine, where history-taking and clinical assessments are performed renetly-during veloco telephonic consultations. While telemedica has added to safely and costal distancing during the pandemic, the manual and resource-intense process of telephonic and video consultations has not helped to sare the patient backing, arthen sadded to thist showshilling issue. This pare describe sabolity of toollippose per-consultation version during the pandemic that added to their showshilling issue. This pare describe sabolity of toollippose per-consultation version during the pandemic that added to their showshilling issue. This pare describe sabolity of toollippose per-consultation version during the questionaries of the innovation was conducted with participants for the Partiet and Polici involvement and Engagement Senate (PIS) of the innovation Agency (an Academic Health Science Network) Qualitative feedback was obtained from the participants on both modalities. The SUS soors were analyzed using the Adjective Rating Scale that revealed the smart Questionnaire of Course analyzed course of the system sability Science Science and untagped potential of process automation and artificial intelligence in dinicial services.	10.1101/2022.12 20.22283710	http://www.embase.com/seard/resulfsrubation www.ewrodkiel.com/2027056383/non-export, http://dx.doi.org/10.1101/2022.12.20.22283710
O. Mohamed, Kassem, A. M., Ashraf, A., Jamal, S., Mohamed, E. H.	An ensemble transformer- based model for Arabic sentiment analysis	SOCIAL NETWORK ANALYSIS AND MINING	2022	13		1	NLP, Arabic text, Sentiment analysis, Ensemble learning, Transformers, BERT	Sentiment analysis is a common and challenging task in natural language processing (NI2). It is a validely dutied area of research; It distillates capturing palic pointies abuda ta topic, product, or service. There is much research that taskles English sentiment analysis. However, the research in the Arabic language is behind other high-resource languages. Recently, models such as bidirectional encoder representations from transformers (BERT) and generative gene trained transformer (GPT) has been widely used in many NED tasks; it significantly improved performance in NI2 tasks, especially sentiment analysis. Nonever, arabic want on target point in their development. Several models focusing on Arabic have necently begun points in their development. Several models focusing on Arabic have necently begun points the ward in their assist and the modified datasets for training approach that combines the multilingual model[XLAT-1] and the monolingual model[XLAT]. You propose an exemptible learning approach that combines the multilingual model[XLAT-1] and the monolingual model[XLAT-1] and the model is a single model. It also address the problem of imbalanced data using a tatte-of-the-art models on all bid subsets. Advancess thore will be taken to be address the problem of imbalanced data using a tatte-of-the-art models on all bid subsets. Advancess thore taken that concerns the intracess concerns the intraces concerns the intracess concerns the intraces concerns	10.1007/s13278-022-01009-0	
J. A. Moldt, Festl-Wietek, T., Mamlouk, A. M., Herrmann- Werner, A.	Assessing medical students' perceived stress levels by comparing a chatbot-based approach to the Perceived Stress Questionnaire (PSQ20) in a mixed-methods study	Digital Health	2022	8			communication, conversational agent, Medical dudents, mised-methods design, PSQ20, stress	Dejective Digital transformation in higher relacation has presented medical subsets with new challenges, which has increased the difficulty of organising their own studies. The main objective of this study is to evaluate the effectiveness of a chaldrot in associng the stress which of medical subsets in everyday conversions and to identify the main condition for accepting associng the stress which of medical subsets in everyday conversions and to identify the main condition for accepting appendixed to the stress of a stress of the stress of stress of the stress of stress of the st	10.1177/20552076221139092	https://www.scopus.com/inward/record.uni?eid=2- 02.0000000000000000000000000000000000
Q. Motger, Franch, X., Marco, J.	Software-Based Dialogue Systems: Survey, Taxonomy, and Challenges	ACM Computing Surveys	2022	55		5	chabbot, conversational agents, systematic literature review, Human computer interaction, Industrial research, Natural language processing, system, Recurrent neural networks, Speech processing, system, Chattrat language interfaces, State of research, Spitem survey, Taxonomies	The use of natural language interfaces in the field of human-computer interaction (HCI) is undergoing interes study through dedicated solution and industrial reasons. The latest contributions in the field, including deep learning approaches lake recurrent neural networks (RMAs), the potential of context-aware strategies and user-centred design approaches lake brought back the attention of the community to solvane-based dalogues persons, generally humon as conversational agents core in databats. Nonethieless, and given the novelty of the field, a generic, context-independent overview of the current state of research on conversional agents core migration and an entry of the solution and the solution of the studies. The conducted research is designed to develop an enhancing perspective through a clore presentation of the studies. The conducted research is designed to develop an enhancing perspective through a solution of by the studies. The conducted research is designed to develop an enhancing perspective through a clore presentation of the studies. The conducted research is designed to develop an enhancing perspective through a clore presentation of the sequence to hold present the accounter of the sequence to hold present the accounter of the different dimensions involved in the conversational agents? field, which is expected to hold presenthers and to just per groundwork for throur exearch in the field of natural language interfaces. © 2022 Copyright held by the owner/author(s). Publication rights licensed to ACM.	10.1145/3527450	https://www.scopu.com/inward/record un?ede3- 2.0- 8513541182&doi=10.1145%271527450&partneri D=40&md5=beecb277d3d1114c17ec3ade4526C95
J. Ng, Haller, E., Murray, A.	The ethical chatbot: A viable solution to socio- legal issues	Alternative Law Journal	2022	47		4 308-313	alternative dispute resolution, artificial intelligence, chatbot, lawyers and the legal system, Legal services, online/cyber law, public interest, sociology	Chatbots are becoming important today because of their various technical functions. They are commonly known for providing legal guidance on processes and general information. However, chatbots can also help solve sixes of social disconnectedness. This article takes and we level of the various types of chatbott that clai with socio-legal issues, with a loss on the use of chatbots by organisations that provide certain forms of legal services, such as community legal services. It highlights the chatbots by organisations that provide certain forms of legal services, such as community legal services. It highlights the chatbots bailty to certa a social impact, while ensuring adherence to rules of legal ethics and principles of ethics in Artificial intelligence. 0 The Author(s) 2022.	10.1177/1037969X221113598	https://www.scopus.com/inward/record.uri?eid=2- s2.0- 85134339989&doi=10.1177%2/1037969X2211135 98&partneriD=40&md5=4c1fca2132099ea7d5f41af Zfec355b8
H. Nieminen, Kuosmanen, L., Bond, R., Vartiainen, A. K., Mulvenna, M., Potts, C., Kostenius, C.	Coproducing multilingual conversational scripts for a mental wellbeing chatbot - where healthcare domain experts become chatbot designers	European Psychiatry	2022	65		5293	chatbot, conference abstract, controlled study, conversation, human, human experiment, language, mental health, mental health care personnel, practice guideline, psychological well-being	Introduction: Digital mental health interventions, such as chatols that promotemental health and-velibeing are a promisingway to devel low-therhold support 24/7 for those in end. According to current knowledge about the topic, health care professionals should participate in the design and development processes for digital interventions. Objectives: The aim of this presentation is to describe the interdiscipal may control development process sets for digital interventions. Deletives: The aim of this presentation is to describe the interdiscipal may control development process of the ChatBid althots: Hothoris: The control development process started in co-operation with mental health professionals and potential users to identify requirements. Content was created, evaluated and testering in international, multi-disciplinary group workhops, and online tools were used to allow the collaboration. Initial conversational scripts were drafted in English, and translated into Finnish, Seedish and Scottish Gaelle: Result: A multilingual althots that we developed and the conversation scripts the structured approach to formating 'autoal diague content. If will allow reparationg the content as well as flacititing studies that who to assess the design of conversation scripts for mennal health chatbots. Conversation design process also highlighted some challenge is to tool mention; dualated progenses. All interventions about the tooi; coll still scrare; this relative. Convolution: the current and wear semineting for chargenges. All interventions about the tooi; coll still scrare; this relative. Conversation all works content development processes of mental health chatbots. Sincer work will develop a conversational UX toolkit that would allow health professionals to design chatbot scripts using design guidelines.	10.1192/j.eurpsy.2022.748	http://www.embase.com/seard/risult3-/ubation wiewrecordiki-cogo855118/fom-zeport, http://dx.doi.org/10.1192/j.eurpsy2022.748
A. Nor, Nur, S., Muhamad, K., Rozilawati, A., Norazrul, Y., Muhammad, F., Nani, S., Noraini, W., Saiful, H., Liyana, S.	Radicherapy Communication Skills Training using Chatbot- Based Protot- Based Prototype (SCIMORT)	Journal of Medical Imaging and Radiation Sciences	2022	53		4 51	adult, audiony stimulation, bilining, breast cancer, cancer radiotherapy, case report, dattoto, clinical article, dinical practice, communication solil, communication solil, communication solil, controlled dinical diagnostic imagine, eyee movement, female, human, contach aipha coefficient, study, questionnaire, radiotherapy, simulation, voice	Introduction: Effective communication skills are integral to providing adequate patient care and are fundamental to fail effectiveness. This is particularly important for radiotheraps valuated switch smeltant patients. The for subcets seeing to develop the shall this, confidence, however, builds, patients and the shall be communication skills training may have been an alternative approach. In this study, a chattor-based prototype model [SDM0RT module] was designed to effectively importe the communication skills of and egalatuse in Diagonal timeling and and the study of the Radiotherapy councy's scattering splates and learning dejective. SCIMORT was constructed using Bender with final reportation to Bo Uber. The research study is divident in two phases. Their sphase focus are used to study the study of the study and the study of the study	10.1016/j.jmir 3022.10.005	https://www.embase.com/search/results?ubstcion viewevecotfakito225733928/ame.export, http://dx.doi.org/10.1016/j.jmir.2022.10.005
X. Ntinga, Musiello, F., Keter, A. K., Barnabas, R., Van Heerden, A.	The Feasibility and Acceptability of an mrealth Conversational Agent Designed to Support HIV Self-testing in South Africa: Cross-sectional Study	J Med Internet Res	2022	24	1	12 e39816	Adult, Maik, Female, Humass, Adolescent, Young Adult, Hw, Self-Testing, Cross-Sectional Studies, South Africe, NW Testing, *HW Infectione/Alagnosis/therapy, "Telemedicine, Mass Corening, INV self-esting, Hists, chatbot, comensational health, mobile phone	BACKGROUND: INV testing rates in sub-Sharan Africa remain below the targeted therehold, and primary care facilities struggle to provide adequate services. Innovative approaches that leverage digital technologianes could improve this testing and access to treatment. OBJECINE: This study amed to examine the feasibility and acceptability of Nolwazi, but its an isiZulu-speaking conversational agent designed to support 11 welf-testing (INV). In KwaZul-Matal, Sun Africa, EMTHODS: Nolwazi, but was designed with 4 different personalities that users could choose when selecting a counselor for ther HINST session. We recruited a convenience sample of 120 consenting a dista and invised them to underkiae an HIV self-sets foiltable of the Nolwazi. Jo- After testing, participants completed an interview-rel de postes structured aurey to assess their experience with the distab- tagoetted INOT. Selfusion, and the self-sets (INIC) and the self age to main 18 or 74 years. What aff of then beings men (61/2, 20) (20) Solit house to be consided by the Movia). In the self-set (Sitzaba with alf of then being men (61/2, 20) (20) After testing, participants completed an interview-rel de postess structured aurey to assess their experience with the distab- tagoettes (INIC). Face (Inicipant I) is the distability and score and the self sectors and the sectors of the sample sectors and the sectors of the sample sectors and the sectors of the sample sectors and the sector of the sectors of the sample sectors and the sector of the sample sectors and the sectors of the sample sectors and the sector of the sample sectors and the sector of the sector of the size of the sector of the sectors of the sector of the sequital technology intervitions to support HIVT in low	10.2196/39816	

X. Ntinga, Musiello, F., Keter, A. K., Barnabas, R., Heerden, A. V.	The Feasibility and Acceptability of an mitealth Conversational Agent Designed to Support HIV Self-testing in South Africa: Cross-sectional Study	Journal of Medical Internet Research	2022	24	12		chabble, computer interface, WH Kett, JA, Alvani, Dot, smartghore, paute HV infection, adult, article, controlled study, controlled study, controlled study, controlled issue, femane, Human, Human, Human immunodeficiency virus infection, major crinical study, male, midde aged, pilot study, pre-exposure prophytaks, program acceptability, program feasibility, self-testing, sociecenomic background, South Africa	Background, HIV testing rates in sub-Shahara Miras menin holder the targeted threshold, and prammy care facilities struggle to provide adequate services. Involute sequencies, the lower sequence of gild a technologic could improve HIV testing and access to treatment. Objective: This study aimed to examine the facilitity and accessful of kolowai. Job via designed with 4 different personalisis that users could choice when sederating a counselor for HIV to HIV to HIV the HIV to HIV	10.2196/39816	http://www.embasc.com/acat/ifesult7bubation =viewrecord.Riel=202354894.Riform=export, http://dx.doi.org/10.2156/39816
L Ogilvie, Presott, J., Carson, J.	The Use of Oxatots as Supportive Agents for People Seeking Help with Substance Use Disorder: A Systematic Review	European Addiction Research	2022	28	Ē	405-418	chabbo, computer, mobile application, santaphone, virtual assistant, atcoloti- virtual assistant, atcoloti- virtual assistant, atcoloti- virtual assistant, atcoloti- virtual assistant, atcoloti- virtual assistant, attoloti virtual virtual virtual virtual virtual virtual virtual virtual virtual assessment, clinical evaluation, cognitive behavioral therapy, convintencere, cogniti virtual virtual virtual dependence, feedback system, feraile, cliowup, Generalized Anxiety Disorder- human, male, markup language, mental heahty, human, male, markup language, mental heahty, mental heahty service, patiet technology, clinical editorial technology, opiate addiction, pandemic, patiet melatih uservice, markup virtual virtu	Introduction: The use of chattoots in healthcare is an area of study receiving increased academic interest. As the isoverledge base grows, the granularity in the level of assess to be singer them. There is now more targeted work in specific area of healthcare, for example, chattoots for anniesy and depression, cancer care, and pregnancy support. The aim of this paper is to systematically supportive agents for those who suffer charts and academic specific	10.1159,0006235959	https://www.embase.com/search/results?ubstchom everencedikeluc2187/1158/meaport, http://dx.doi.org/10.1159/000515959
M. Otero- Agra, Jorge- Soto, C., Cosido- Cobos, Ó J., Blanco- Prieto, J., Alfaya- Fernández, C., Garcia- Grdőñez, E., Barcala- Furelos, R.	Can avoice assistant help bystanders save lives? A feasibility pilot study chatbot in beta version to assist OHCA bystanders	American Journal of Emergency Medicine	2022	61		169-174	chatbo, manikin, virtual assistant, voice assistant, adult, article, basic life support, breating, bytander effect (psychology), consciousnes, deep learning, emergency health service, graduate, heart arrest, human, lapperson, learning algorithm, long term care, machine learning, out of humpital assista-errest, patholita, service, assistant study, resuschation, simulation, university student, voice recognition	Objective: Evaluating the usefuness of a chit bot as an assistant during CPR care by hyperions. Methods: Twenty-one university andulates an university students have in basic III experiments provide the flag cair-experimental immutation plot trial. A version beta chatbot was designed to guide potential bystanders who need help in caring for cardiac arrest victims. Through a Question-Anversitig (QAB) Mowintr, the chatbot user Vice Recognition Techniques to transform the user's audio into text. After the transformation, it generates the answer to provide the necessary help through machine and deep learning algorithms. A simulation test with a Laerdau Little Anne manihus was performed. Participations initiated the chatbot, which guided them through the recognition of a cardiac arrest even. After recognition geneeves was done via a chebita and beguing their compression for Amir. Evaluation of the cardiac arrest even cardiac arrest, the chatbot indicated the start of chest compression for Amir. Evaluation of the cardiac arrest evenghinos specence was done via a chebita and the quality of CPR was collected with the Laerdal instructor App. Results. 51% of participants were able to perform the entire sequence compression point. A media due of LSS 10(2): Lid-21(2) was needed for the whole process. 33% of participants also read that perform and of do not OSS constructions (Cardiac compression. The two of a varial scale could be transformed to all 123 or toperform do existion and the compression. The time varise of course top packed with no previous training to perform do existion character compression. The time variates and be howed and participants to all 123 and to perform do existion and be united top packed with no periods training to perform do existion compression. The time varian of the durition for potential bystanders naive in hasic III support needs to be further developed to reduce response times and be more effective in giving freedback on chest compression.	10 1016/j.ajem.2022.09 013	http://www.embase.com/search/results/babtion wewrecordiki-Loz201952558/norme-port. http://dx.doi.org/10.1016/j.ajem.2022.09.013
C. Outeiral, Deane, C. M.	Cadon Inguage embeddings provide strong signals for protein engineering		2022		(Outeira I C, carlos@ outeiral. net; Deane C.M., deane@ stats.ox. deane@ stats.ox. Depart ment of Statistic s, Universi V oxford, 24-29 St Giles', Oxfords Coxford, United Kingdo m		amino add sequence, codon, deep learning, embedding, genetic transcription, human, human experiment, llaguage, machine learning, melting point, mociular teorginton, pregimeering engineering	Protein representations from deep language models have yielded state-of-the-art performance across many taks in computational protein engineering. In recent years, progress have yielded state-of-the-art performance across many taks in capacities supposing the size of the very datasets they were trained on. Nere, we propose an alternative direction. We show that large language models taxied on codes, instead of annous cal sequence, provide high-quality preparations, prediction of protein-the properties state-of-the-art models across a variety of tasks. In some tasks, the species recognition, prediction of protein-the properties databatise, or models across a variety of tasks. In some tasks, the species recognition, prediction of protein-the properties databatise, or models across a variety of tasks. In some tasks, the species recognition, prediction of protein-the properties databatise, or models across a variety of tasks. In some tasks, the species recognition, prediction of protein-the properties databatise, or models across across the state and protein-the protein-targe model taske on constraints of advance, suggest that, in addition to commonly studied scale and model complexity, the information content of biological data provides an orthogonal direction to improve the power of machine learning in biology.	10.1101/2022.12.15.519894	https://www.embase.com/sear/r/resulf3zubation viewecordfaile:022269718/formesport, http://dx.doi.org/10.1101/2022.12.15.519894
S. Pais, Cordeiro, J., Jamil, M. L	NLP-based platform as a service: a brief review	Journal of Big Data	2022	9	1		Big data, Cloud computing, Natural language processing	Natural language processing (NP) refers to the field of study that focuss on the intrastiction between human language and compartsr. I. That verter by pained much attention for analyzing human language constitutionally and bus grand in a signal consort is a signal consort in a signal consort is a signal consort in a service in the cloud's vast, on-demand computing power. Nerwer, It has not signal consort in a service in the cloud of signal consort in a service in the cloud of the signal consort in a service in the cloud of signal consort. The vector is a signal consort is a service in the cloud of the signal base of the signal consort in the challenges and ingrations are a service in the cloud of signal consort. The signal consort is discussed with the signal consort is a service in the cloud of the signal to a signal consort is discussed. This paper presents a survey of NP in cloud computing with a key focus on the comparison of cloud-base Att P acrosice, challenges of NI and big data with the scoot part is observed. If V also cloud-base Att P acrosice, challenges of NI and parts the single consort of different levels of NP and components of natural language generation (ICL), blowed by the applications of NF, in the scoot part, the concept of dusc dusces and NP acrosice) and part, the field of big data in the doud is discussed with an emphasis on NIP. Furthermore, information extraction via NIP techniques within bg data is introduced. © 2022, The Author(i).	10.1186/+40537-022-00603-5	https://www.stoppar.com/inwest/necord.un?htejcs 20.45120392828doi=10.1186x214.d0537.022- 00603- \$8partner10=408.md5=38194261bc025s4df482df3 12774a59e
R. Pandey, Gautam, V., Pal, R., Bandhey, H., Dhingra, L. S, Misra, V., Sharma, H., Jain, C., Bhagat, K., Arushi, Patel, L., Agarwal, M., Agrawal, S., Jalan, R., Wadhwa, A., Garg, A., Agrawal, Y., Rana, B., Kumaraguru, P., Sethi, T.	A machine learning application for raising WASH awareness in the times of COVID- 19 pandemic	Scientific Reports	2022	12	3		epidemiology, female, global health, huran, machine learning, male, natural language processing, pandemic, COVID-19, Disinformation, Humans, Pandemics	The COVID-19 pundemic has revealed the power of internet disinformation in influencing global health. The delage of leverage machine learning for delivering the right information while constantly learning misinformation trends and deliver these effectively in venicular languages in order to comtast the information and the information trends and deliver applications. VashNaro, is a multi-promped intervention that uses conversational Artificial intelligence (A), machine translation, and natural language processing to combat misinformation (NHV). VasiNaro uses A to provide accurate information marking the against WOH recommendations and delivered in an understandable format, in iscal languages. The primary and of this study against WOH recommendations and delivered in an understandable formation. In iscal languages. The primary and of this study information mitights the misinformation (NHV). VasiNaro uses A the provide accurate information marking segmentation insights for improving the delivery of information. A total of 5026 people downloaded the app during the study window; mong thouse c. J.154 were actively engaged uses. On a traviary shows that 3 day of continuous machine learning, and the produces of intergrated Alabott. "Staff" interead huses volted build build with 35 days of continuous machine learning, and the produces of intergrated Alabott. "Staff" interead huses volted build build with 35 days of continuous machine intigrate health misinformation. We conclude that a machine learning application delivering lite-sized versical paperach to mitigate health misinformation. B 2022, The Author(s).	10.1038/441598-021-03869-6	https://www.scoptic.com/invard/record uni?eid=2 22.645123092173660-10.013875/sd1558.021- 03860- 68partner/10-88md5-608d173de608d2057033/7 49b18b174c
S. Pandey, Sharma, S., Wazir, S.	Mental healthcare chatbot based on natural language processing and deep learning approaches: Ted the therapist	International Journal of Information Technology (Singapore)	2022	14	7	3757- 3766	Artificial intelligence, Chatbot, Deep learning, Mental health, Natural language processing	Mental disorder is deliberated to be the top cause of Years Level with Dissibility (YLD) with over 32% of the population affected. However, there is a shorting of mental healthcare provides and operationations to manage the huse population. Due to the acternetity low number of mental healthcare provides as valiable, one-or-ore interactions with all the patients is not possible, which affects their treatment process. This effect severely hindres the treatment process with on right creating the process management of the patients is none cases. Therefore, there is a need for Al Artificial Intelligence] techniques that help us to solve this sizes. In this paper, we process and a web based tables classific and mental head net processed in this septer, we process and a web based tables classific and cases and a start of the patients is source. This classification and the section of the section mental head net processed in this septer, we process and a web based tables classific and cases and a start the theorem the process of the deep-learning approaches. The user message is lemmatized and pre-processed in this start ergones according to the input. The accords of user proposed tables input, and generate the appropriate response. And with a start of the sequel tables is a start of providing the appropriate response. In addition to this, "Teff" will heigh the patients who are reluzant to speak and get stignastized by the presence of mental healthcare providers. 2022, The Author(s), under exclusive licence to Bharati Wohypeeth's institute of Computer Applications and Management.	10.1007/41870-022-00999-6	https://www.scope.com/inward/record un?ded2- 20-05311232858.doi=10.1007%21:41870-022- 00999- 68.gartner10-408.md5-700c077747/2:0460425ce1 fs1149387

Y. Park, Shin, Y.	A Block-Based Interactive Programming Environment for Large-Scale Machine Learning Education	Applied Sciences (Switzerland)	2022	12	2	4	K-12 education, large-scale training, natural language processing, Scratch, Tooee	The existing block-based machine learning educational environments have a drawback in that they do not support model training based on large-scale data. This makes it difficult for young students to learn the importance of large amounts of data when creating machine learning models. In this paper, we present a novel programming environment in which students can easily train machine learning models based on large-scale data using a block-based programming language. We redefine the interfaces of existing machine learning blocks and also develop and reficient would training algorithm students and programming languages to enable. "Instant training" and "large-scale training". An example educational applications based on the servicomet, we presented what is termed a "Question-Answing" Chatted" regram training algorithm students with 7784 classes as well as a "Calebrithy Look-Alike" program trained on 1432 image data instances with 7 classes. The experimental results how that techedres and pre-service teachers give high scores on all four evaluation measures for this environment. © 2022 by the authors:	10.3390/app122413008	https://www.scopus.com/inward/record.uri?eid=2- s2.0- \$5149970438.doi=10.3390%2/app1224130088pa rtnerID=408.md5=80c3930628947/e3e8072e313179 ef05
P. Parmar, Ryu. J., Pandya, S., Sedoc, J., Agarwal, S.	Health-focused conversational agents in person- centered care: a review of apps	ngi Digital Medicine	2022	5		1	Learning algorithms, Marketing, mitskith, Natural language processing systems, Search engines, Tababis, Context of use, Conversational agents, Context of use, Conversational agents, Evaluation francework, Googe Hodiale app, Natify healthcare, Application programs, geographic distribution, health education, human, machine learning, medical information, metral health, nachine learning, medical information, neural health, nachine serving, medical information, neural health, nachine serving, and prevention, Review, search web browser	Health-focused apps with chattors ("healtholds") have a critical role in addressing apps in quility healthcare. There is limited evidence on how such healthobs are devideded and applied in practice. Our review of healthbots miss to classify types of healthbots, contexts of use, and their natural language processing capabilities. Eligible apps were those that were health- related, had an embedded text bade conversional agent, valuable in fragits, and were available for fragits, and were available for fragits, and use and use available for fragits, and use available for fragits for the available for fragits for the stage available for fragits for the stage use the health inpact. D 2022, The Author(s).	10 1038/441746 022 00560-6	http://www.scops.com/inward/record.un?teid=2 21.05125272186koi=10.038%t/st1746022 00560- 68partner()=-0.86md5=1:456e8b2233669223e2372 06ff9bb7
S. Pithpornchai yakul, Naorungroj, S., Pupong, K., Hunsrisakhu n, J.	Using a Chatbot as an Alternative Approach for in- Person Toothhrushing Training During the COVD-19 Pandemic: Comparative Study	Journal of Medical Internet Research	2022	24	1	0	TCTB2019122305, chaibad, atricial effective-rolid, atricial effective-rolid, atricial effective-rolid, controlled study, coronavirus disease 2019, female, human, infant, major cinical study, male: mouth hygiene, pandemic, preschool child, randomized controlled trial pandemic, preschool child, randomized controlled trial analysis, tooth brushing, usability, videorecording	Badground. It is recommended that caregivers nearly end health elucidation and in spercen training to improve toothbrushing for young children. To incregione on the individual hole (COPU-19), the 12-10 produce chaldow utile in sperson training to incregione on the individual hole coverage of chaldren from 24 days to 03 days by incorporating more video on toothbrushing demonstrations and chaldpus. This was secondary data comparison of 2 datatosts in maler unal areas of Pattatia provinces. A pre-post degin was used I both training to improve toothbrushing the incorporating more video on toothbrushing demonstrations and chaldpus. This was a secondary data comparison of 2 datatosts in andiar rural areas of Pattatia provinces. A pre-post degin was used In both tubics (Souly 11), Obertuch Study 11), based on the protection notivations have / pre-post degin was used In both tubics. The effectiveness was valuated among caregivers in terms of oral hygiene practices, howledge, and can health trae preceptions based on PMT. In Study, participants caregivers in terms of oral hygiene practices, howledge, and can health trae preceptions based on PMT. In Study, lancticpants caregivers in terms of oral hygiene practices, howledge, and can health trae preceptions based on PMT. In Study, lancticpants caregivers in terms of oral hygiene practices, howledge, and can health the elsability of using the 20-Day Funde chatbots as an ilternative only daily chatbot programming for 30 days during Desember 2021 to February 2022. Data were gathered at baseline of each study in and 30-days and 60 days after the study of Sudy in a data study. Iteractic and the study is anticipant to study and a 30 days of the study of Sudy is and Sudy is accessed with the study (blue) is anticipant study is long of Sudy is anticipant study is long of Sudy is and study is and study is anticipant study. Iteracing and anticipant study is anticipant to a study is anticipant study. In Sudy is and study is and anticipant study. Iteracing and ant	10.2196/99218	http://www.embase.com/acat/s/eau/t/subaction -wiew/etond8id=120211260428/rom-export, http://dx.doi.org/10.2136/39218
M. Primé Tous, Anmella, G., Segú, X., Fernández Canseco, M. D. R., Carrino, C., Villegas, M., Vicens, V., Blanch, J., Cavero, M., Vieta, E., Hidalgo- Mazzei, D.	PRESTOapp for health workers with mental health symptoms related to the COVID-19 pandemic	European Psychiatry	2022	65		5575	burnout, chatbot, computer interface, conference abstract, cornovirus disease 2015, fessibility study, health mental disease, mental health, neural and space preliminary data, remote sensing	Introduction: The COVID-19 pandemic has caused a significant impact on the mental health of health workers that has brought many hospitals to launch immediate preventive mental health programs. Objectives: (1) To adapt and enhance a smartphore age (PRISTOBgp) for health workers with meral health synthympics related to the COVID-19, and (2) to downstrate it is potential effectiveness in significantly reducing aniety-depressive and PTDS symptoms in this population. We aim to incorporate heature language Processing (PM)-based techniques in a chartou userinterface that will enable a more personalized and accurate monotrong and intervention. Methods. An 15-months study with 8-month preliminary prate to the site of the site of t	10.1192/j.eurpsy.2022.1474	https://www.embase.com/search/results?ubaction =viewrecord&id=L039686598.from=export, http://dx.doi.org/10.1192/j.eurpsy.2022.1474
I. W. Puspitasari, Rinawan, F. R., Purnama, W. G., Susiarno, H., Susanti, A. I.	Development of a Chatbot for Pregnant Women on a Posyandu Application in Indonesia: From Qualitative Approach to Decision Tree Method	Informatics	2022	9		4	chatbot, decision tree, mHealth, Posyandu, pregnant women	With the widespread application of digital healthcare, mobile health (initialith) services are also developing in maternal and child health, primarky through community-based services, such as Poynaniu in Indonesia. Patients need media for consultation and decision-mained while health workers are constrained in corporating quickly. This toxidy aimed to obtain information from pregnant worten and midwaves in developing a decision tree model as material for building a semi-automated chatbot. Using an exploratory qualitative approach, semi-instructured interview were conducted through flocas group discussors (FGD) with any group of them in the set of	10.3390/informatics9040088	http://www.scopus.com/inward/record.ui?kids-2 220- 82146908718.doi=10.390%2finformatics904008 88partner0=408.md5=81900425f8498694bf7eca 644ded63
N. Qamar	THE IMPACT OF ARTIFICIAL INTELLIGENCE IN HUMAN RESOURCE DECISION MAKING PROCESSES	Journal of Pharmaceutical Negative Results	2022	13		6393- 6399	article, artificial intelligence, commercial phenomena, decision making, decision support system, human, interview, skill, software	The modern business technology is changing the way we operate and function in earlier days. This spapiles to every department in the company and Human Resources are no exception. This paper gives an insight into A based RIR approaches that is productive in an organization which mimitses the work load in less amount of time. With the help of A human brain logical thinking is organized with mimitse the work load in less amount of time. With the help of A human brain logical thinking is organized with mimitse the work load in less amount of time. In this paper size of the most prominent Al based application is discussed such as Chatbots, tyoice assistants, etc. Al deployment is done in fine ways such as Start, Decide, identify, implement and R0 load. Benefits of Al is also discussed in detail. The main goal of this paper is to know the importance of Al in HB based policy.	10.47750/pnr.2022.13.507.777	http://www.embase.com/earch/results?aubaction =wiewrecord&id=12022055707&from=export, http://dx.doi.org/10.47750/pmr 2022.13.507.777
N. Rebelo, Sanders, L., Li, K., Chow, J. C. L.	Learning the Treatment Process in Radiotherapy Using an Artificial Intelligence- Assigned Chatbot: Development Study	JMIR Form Res	2022	6	1	2 e39443	artificial intelligence, cancer therapy, chatod, communication, diagnosis, machine learning, medical physics, radiation oncology, radiation treatment process, radiotherapy chain	BACKBGOUND: In involvelge transfer for educational purpose, mot cancer logital or center veloties have existing information on ancere health. Nowever, was uniformation is usually a list of topic that are entitler interactive on customated offer any personal touches to people facing dire health crisis and to attempt to understand the concerns of the user. Patients with cancer, their families, and tegenerary public accessing their information are entitler interactive on customated segnitization of the service and the segnitization of the service and the segnitization and the service and the service and the service and the service and the sector and the service and the setvice and the service and the stakeholders comprehensively and accurately, in the absence of any similar software. This shallow has created using the IMM watcan skitzen watch the patient diagnosis, comparing fastures. The databot net knowed is the service and the service and machine learning fastures. The databot net knowed is the service and the service and the service and machine learning fastures. The databot net knowed is the service and the service and machine learning fastures. The databot net knowed is the service and the service	10.2196/39443	

N. Rebelo, Sanders, L. Li, K., Chow, J. C. L	Learning the Treatment Radiotherapy Using an Artificial intelligence-Assi sed Chathoo: Development Study	JMR Formative Research	2022	6	15	2	artificial inelligence, cancer therapy, chaltod, communication, diagnois, communication, diagnois, machine learning, medical physics, radiation norclogy, radiation freatment process, radiotherapy chain	Bickground. In histophologic transfer for educational purposes, most cancer health Anower, such information is usually ali ali or forces that an methical interactive on cransmithent. Network, such information is usually ali ali or forces that an methical interactive on cransmithent. Network, such information is usually ali ali or forces that an methical interactive on cransmithent for a descent processing and the general public accessing the information are often in challenging, strestal durations, waiting to a descent public and indigenessing. Testal durations, waiting to a cransmithent for a descent public and the general public accessing the information are defined in challenging. Strestal durations, waiting to access accurate information as efficiently as possible. In addition, there is sedon any comprehensive information specifically on radiotheray, depited the large number of older patients with the riccluin lines, particularly during the ingering pandemic. Objective: This study created a novel virtual assistant, a chatbot that can be aplain the radiation treatment process to assistand with artificial intelligences and mainline learning features. The chatbot or bot wais incorporated into a resource that can be easily accessed by the general public. Methods: The radiation treatment possibil are of resource and main efficiency and pain entire derivery. The bot was created using the HBM values of the users incorporated into a simulation values and entire patient derivery. The bot was created using the HBM values of the descipation of similar generation and treation treatment process in a careford and recegnition and resource the waits careful action and the similar patient stepsion and patient extensions and the comparison of the treatment procession and the other patient derivery. The bot was created using the HBM values of tBM comparison and the the descipation of similar genes anaples, referred using the HBM values of test stepsions, there is a similar struate and an entre cognice hose that assistant with	10.2196/39443	http://www.scopac.com/inward/record.un?ield=2- 2-0- 85145557002&doi=10.2196%2794438.partner10=4 0&md5=P854694ce80b2da5bcf086e81a6ab537
B. Richardson, Wicaksana, A.	COMPARISON OF INDOBERT- LITE AND ROBERTA IN TEXT MINING FOR INDONESIAN LANGUAGE QUESTION ANSWERING APPLICATION	International Journal of Innovative Computing, Information and Control	2022	18	e	5 1719- 1734	Fine-tuning, IndoERT-Ite, Indonesian language, Question answering, RoBERTA, SQuAD, Text mining, Tybi QA, Application programs, Data mining, Multimedia systems, Chabots, Fine tuning, Indonesian languages, Informatics, Text-mining, Web services	Jacob is voice datatot application that provides information related to the informatics Joint Degree program at Universitis Multimedia Nusaniza. Jacob is currently designed to be able to do question answering and text mining online in real line for the English Janguage. This study aims to find the best model for question answering and text mining that the indonesian language and integrated with Jacob as provide of concert. The pre-trained model of modelRT-rise and desRT are studied and implemented as a web service. The work includes per training and fine-tuning the two models with TyDR QA and indonesian translates SQLad datasets. The goal is a time in a model that give answers in the indonesian inspage and the highest accuracy and F-score value. The test and evaluation results indicate that the induce the quest do aperforms the rest for indonesian question answering and text mining applications. © 2022, ICC international. All rights reserved.	10.24507/ijici:18.06.1719	https://www.scopus.com/inverse/record un?ede3- 2-0- 831406445838doi=10.24507%20fijdc:18.06.17198 partneri0=408/mds=d515de5ceb01b1becd6c00fe5 236692
R. Riedl	Is trust in artificial intelligence systems related to user personality? Review of empirical evidence and future research directions	Electronic Markets	2022	32	2	4 2021- 2051	Artificial Intelligence (AB, Big The traits, Machine learning (ML), Personality, Review, Trust, Trust propensity	Artificial Intelligence (A) refers to technologies which support the execution of tasks normally requiring human intelligence (eq., visual preception, speech recognition, or decision-mainly). Examples for A) systems are thatles; hosto, or autonomous vehicles, all of which have become an important phenomenon in the economy and society. Determining which AI system to trust and which not trust is fritcle, because such systems can out tasks autonomuly and influence human decision making. This growing importance of trust in AI systems has paralleled another trend: the increasing understanding that user personality is related to trust, thereids particing the acceptance and adaption of A) systems. We developed a framework (or user personality and trust in AI system in a decision-making contrast). Based on this framework, we reviewed the scientific literature. We analyzed H > 53 empirical tudies published in various scientific discipations and developed a "Pagi turture" leve, revealing significant relationships between personality traits and trust in A systems. Nowever, our review also shows stered langehord frasers/law H > 53 empirical trusts (see and trust in A systems. Showever, our review also shows stered langehord frasers/law H > 53 empirical trusts (see thing) and trust in A systems. Showever, our review also shows stered langehord research was in stratically, traits and trust in A systems. Showever, our review also shows stered langehord research (b) as the based	10.1007/s12525-022-00594-4	https://www.scopuc.com/invard/record un?ed=2- 200594-20050400-10.1007/82112525-022- 00594- 48partner10-408md5=3bl/596aa4e009f020765259 05d12b566
I. Rizomyliotis, Kastanakis, M. N., Giovanis, A., Konstantoula ki, K., Kostopoulos, I.	"How mAy I help you today?" The use of AI chatbots in small family businesses and the moderating role of customer affective commitment	Journal of Business Research	2022	153		329-340	Al chatbots, Anthropomorphism, Customer affective commitment, Customer experience, Customer satisfaction, Small family business	In a digitally empowered builders world, a growing number of family buildness an liveraging the use of chaldos's is an attempt to improve contomer operinent. This reach investigates the antecedent's of chaldos's uscensibility use is small family buildness. Subsequently, we determine the effect of two distinctive sets of human-machine communication factors—functional antumanoid—on contomer experince. We asses the latter with respect to its effect on contomer satisfactors. While a form of infinite attachment can occur between customers and small buildnesses, affective commitment is prevalent in customers' attracted and could be conflicting with the distant and improvident customer satisfactors uncommer statisfaction. Bat come from difference commitment in the relationship between customer experience and customer satisfaction. Bat come (mon difference commitment in the relationship between customer experience and customer satisfaction. Bat come (mon difference) communication. The study provides practical and theoretical insights that stipulate the dimension of chatbots' effective use in the context of small family buildnesse. D 2022	10.1016/j.jbusnes.2022.08.035	http://www.scopus.com/inward/record uni?eid=2- 20- 85137030128.doi=10.1016%2f ibures_2022.08.0 358partent=0-80md5=e4fea102c433c1926b57a9 99b62dc495
M. Rodriguez Arrastia, Martinez- Ortigosa, A., Ruiz- Gonzalez, C., Ropero- Padilla, C., Roman, P., Sanchez- Labraca, N.	Experiences and perceptions of final-year nursing students of using a chatbot in a simulated emergency situation: A qualitative study	Journal of nursing management	2022	30	8	8 3874- 3884	artificial intelligence, health care delivery, human, nursing student, problem solving, qualitative research	AM: The aim of this study is to explore the experiences and perceptions of final-year nursing students on the acceptability and feasibility of using a chartle for dirical decision-making and partiest steley. BACCROUND: The effective and indusive use of new technologies such as conversational agents or chattots could support nurses in increasing evidence-based care and decreasing low-quality services. MITCHOS A descriptive qualitative study was used infrued from group directives. The data analysis was conducted using a thematic analysis. RESULTS: This study included 114 participants. After our data analysis, two main themes emergence (i) experiences in the use of a chattot strice for cinical decision-making and and [ii) integrating conversational agents into the organizational safety culture. CONCLUSIONS: The findings of our study provide preliminary support for the acceptability and resultify of adopting safetod, a chattot for cinical decision-making and and patterni stelly. Our results revealed substantial recommendations for refining envigation, layout and content, as well as useful ninghts to support tria scoreptance in framising particle. MINOLTONDS 106 NURSIDEMINE Loaders and management was artificial intelligence-based conversational agents like safeted as a potential solution in modern nursing practice. MINOLTONDS 106 NURSIDEMINE and accenter, as well as useful ninghts to support triat acceptance in relaxing market. MINOLTONDS 106 NURSIDEMINE Loaders and management was artificial intelligence-based conversational agents like safeted as a potential solution in modern nursing practice. MINOLTONDS 106 NURSIDEMINE and the bedside and criteria for measuring and ensure quality and patient staffery.	10.1111/jonm.13630	http://www.embase.com/seard/results?ubation viewewcordkietur5731534&forme.export, http://dx.doi.org/10.1111/jonm.13630
J. Ross, Belgodere, B., Chenthamar akshan, V., Padhi, I., Mroueh, Y., Das, P.	Large-scale chemical language representations capture molecular structure and properties	NATURE MACHINE INTELLIGENCE	2022	4	1;	2		Large language model have recently emerged with textaordinary capabilities, and these methods can be applied to model other kinds of sequences, such as string representations of modeuces. Ross and collequies have created a transformer-based model, transford an large dataset of molecules, which provides good results on property prediction, twich is discovery and text of the string of the stri	10.1038/42256-022-00580-7	
K. Roy, Gaur, M., Sottani, M., Rawte, V., Kalyan, A., Sheth, A.	ProKnow: Process knowledge for safety constrained and explainable question generation for mental health diagnostic assistance	Front Big Data	2022	S		1056728	explainability, mental health, antural language generation, process knowledge, safety, commercial or flancial relationships that could be construed as a potential, conflict of interest.	Virtual Metari Health Assistants (NMHA) are utilised in health care to provide patient services such as counseling and segestive care. They are not usef of partient diagnostic sustainance because they cound adhere to adher, or control and second and chical process howledge (Protinow) used to obtain chical diagnoses. In this work, we define Protowa as an ordered set of information that mays to evidence based guidelines or categories of conceptual understanding to experts in a domain. We also introduce a new dataset of diagnostic conversations guided by safety constraints and Protow that healthcare professionals use (Protow-data). We devide part metal language questic (Multi Norden) table that collect diagnostic information from the patient interactively (Protow-lag) to exponent the process howledge through equipiting moding attempts and works experiments in designing analysis of the conceptual understanding translates to clinical settings, we information in designing analysis do metal to the fuel properties step (logical conceptual and estanding analysis) and the ground truth. Works the Norkow-lag is noncoprotect the process howledge through equipitity modeling safety, howledge capture, and explaination metrics that test fuel properties region and annels (volume) and the ground truth. Works the Norkow-lag is experimentations wide a disk test operative is non-ledge to any explanation test step and equipities (Integration and the section and anety do that the Norkow-lag is conceptional passed granues in the destination set and its and task test operative. Noneledge capture. The explanationally det the generated destinations is asseaded by computing similarity to an explanation and anively howledge bases. Oread III respective of the hypothese simulated by computing similarity with concepts in depression and anively howledge bases. Drevel III respective of the prodektive granters and and averaged 32% improvement over simple per trained LMs on safety, explainability, and proces-guided question genera	10.3389/f64ta 2022.1056728	
M. Rukhiran, Phaokla, N., Netinant, P.	Adoption of Environmental Information Chatbot Services Based on the Internet of Educational Things in Smart Schools: Structural Equation Modeling Approach	Sustainability (Switzerland)	2022	14	23	3	chatbot, environment information, evaluation usage, internet of educational things, smart school, software development, unified theory of acceptance and use of education, health and safety, numerical model, student, sustainability	The internet of disutational Things (pdT) equips chalabots with real-time environmental information monitoring to prevent student and instructor absences and selegated their health individual behavioril interion toward a chalabot tervice is essential for better understanding the user's experience and acceptance of monitoring environmental elements such as PMD2.5. Temperature, humiles, and cahoe monosolic. This study alims to paply an integration of an extended Transverk for smart schools developing an environmental information chalots tervice (ENICS) and various users' continued behavioral internitors have a the chalot service. The event of the environmental information and such territors than and safety. Selvers the set on the user table study are territor of Uning architecture to develop and utilize the chalots service. The versuits of the paratile last square territ largely support the valid scient and selvely, behavioral intertion, and use behavior on personal environmental information chalots utilization. This study's finding deal with a better design for environmental system development and understanding the factors influencing an individual's interimon to continue using a chalot selve for GHT applications with low-cost information facilities in safe environmental statinability. © 2022 by the authors.	10.3390/ku142315621	https://www.scopus.com/inward/record.un?eld=2- 2-0- 85148329008&doi=10.3390%Zhu142315621&Bpart neri0=40&md5=9699&8d79e346e83e70fdab6d569 19f
A. G. Russo, Ciarlo, A., Ponticorvo, S., Di Salle, F., Tedeschi, G., Esposito, F.	Explaining neural activity in human listeners with deep learning via natural language processing of narrative text	Scientific Reports	2022	12	1	1	sricie, clinical article, comprehension, deep learning, functional magnetic resonance imaging, human, human experiment, middle temporal grus, narraitve, antural language procession, posterior cingulate, prediction posterior cingulate, prediction posterior cingulate, prediction train magning, nuclear magnetic resonance maging, procedure, humans, Magnetic Resonance imaging	Deep learning (DL) approaches may also inform the analysis of human brain activity, Here, a state-d-art DL tool for natural language processing. The Generative Pre-trained Transformer version 2 (Br7-1), a bown to generate meaning/un enral encodings in functional MB during narrative listening. Linguistic features of word unpredictability (surprisa) and contextual importance (allency) were derived from the GT2- applied to the stat of a 12-min marzhe. Segments of available duration (from 15 to 30 a) defined the context for the next word, resulting in different sets of neural predictions rors from the artificial networks, significantly september (the prediction set) of the method of the state of a 12-min method. Second set of a station in the artificial network, significantly september (the prediction set) of the method of the state of a 12-min method. Second set of a station and protections, and in the the prediction set or 67-min set of a 12-min method. Second set of a station and protections, and in the the prediction set of 7-12 allency weighting the importance of context words, application sets of neural prediction sets of neural prediction sets of neural predictions resolve in the search for neural encodings in functional MBI. A DL language model like the GT-72 may feature useful data about neural processes subserving language comprehension in humans, including next-word context-related prediction. © 2022, The Author(s).	10.1038/s41598-022-21782-4	https://www.scopu.com/inward/record.uu?ed=2- 21.0534063626406410.10388x7144598.022- 21782- 48.partner10-408md5-9a93164859cf71df68c694b 73aec8d71

C. Coursela	they addressed	Internet and	2022				and the statistic state of the	television de la construction de la construcción de la construcción de la construcción de la construcción de la	40 3300 (1	have the second second from the 2 or her store
S. Sayegh- Jodehl, Mukowski- Kickhöfel, R., Linke, D., Müller-Birn, C., Rose, M.	Use of Instant Messaging Software in a German Hospital—An Exploratory Investigation among Physicians	International Journal of Environmental Research and Public Health	2022	1	9	19	adult, article, attitude to health, clinical practice, digital technology, e-mail, Germany, human, human experiment, Likert scale, medical practice, patient satisfaction, physician, privacy, questionnaire, social media, text messaging, thematic analysis, videoconferencing	Internationally, evidence exists that physicians use instant messaging services for communication tasks in everyday clinical practice However, there are only feed as in Germany in this regard. Therefore, at the initiation of our project "DocTaik Olalog meets Chathot Collaborative Learning and Teaching in the Process of Work", we conducted a state-holder survey with an epidotary research approach. The aim was to gain initial insight in to use of Instant messaging software and attitudes towards data security and advantages and disadvantages before implementing a data-secure in-house messaging platform. N = 70 physicians at Chartfel Investitätanediin inferenting in the constraint experimentary experimentary with closed and oppe- ended questions. Quantitative data were analyzed using descriptive statistics and qualitative data using thermitic analysis. The use of messages constraints were also physicalen in frequenty used from the co-frace contact for communication. On average, up to ten instant messages were exchanged per day, mainly among colleagues, to answer mutual questions, and to see opticities. With a high avverense of physicy-related restrictions among participating physicians, advantages such as fast and uncomplicated communication were also highlighted. An instant messager solution that complies with the German data protection guidelines is needed and should be investigated in more detail.	10.3390/jierph191912618	https://www.embase.com/search/resultSrubatcho viewecordAieLoUD59583674/forenewport, http://dx.doi.org/10.3390/jerph191912618
S. Sayenju, Aygun, R., Boardman, J., Don, D. P. R., Zhang, Y., Franks, B., Johnston, S., Lee, G., Sullivan, D., Modgil, G.	Quantification and Mitigation of Directional Pairwise Class Confusion Bias in a Chatbot Intent Classification Model	International Journal of Semantic Computing	2022	1	5	4 497-52	bias mitigation, chatbots, directional pairwise class confusion bias, intent classification, Natural Language Processing, Artificia intelligence, Classification models, Language processing Model bias, Natural language processing applications, Natural languages, Natural language processing systems	Currently, Natural Language Processing (NUP) applications like chatbots are very close to minick human reponses. This has been achieved to aproverif and apphicated models like illustrictional Encode Representations from Transformers (BET). Although, the capabilities that such models offer an esuperior to the technologies that preceded it, there models still posses bass. BET or similar models are mostly trained on test coprose that deviate in important ways from the test encountered by a chatbot in a problem-specific context. Past research on NEP bias has heavily focused on mesuring and mitigating bias with respect to protected attributes (stereoring like gender, race, ethnice), etc.), but the exploration of model bias with respect classification labels remained yet to be explored. We investigate how a classification model hugely forors one class with respect to another. In this page, we propose bias evaluation technologic called directional pairive das as conficient bias that highlights our chatbot intent classification models bias on pairs of classes. Lastly, we also demonstrate two bias mitigation strategies on a few example-biased pairs. © 2022 World Scientific Publishing Company.	10.1142/51793351X22500040	https://www.scopt.com/inward/record un?del32- 22- 85136124068doi=10.1142%251793351X225000 40&partnerT0-40&md5=ac533381d4e63a07d55d9 6bcb1f57b55
Y. Shan, Ji, M., Xie, W., Lam, K. Y., Chow, C. Y.	Public Trust in Artificial Intelligence Applications in Mental Health Care: Topic Modeling Analysis	JMR Hum Factors	2022		3	4 e38799	Al application, Google Play, artificial intelligence, digital health, ekelath, health app: metalab, metal disorder, mental health, metal health health, public opinion, public health, public opinion, public trojic modeling, user feedback, user review, visualization	BACKBGOUND: Metal disorders (MD) impose heavy burdets on health one (HC) systems and affect a growing number of people worksive. The use of noble health (metalth) apper soneworkely a strilled intelligence (A) is increasingly being resorted to as a possible solution. OBIECTIVE: This study adopted a topic modeling (TM) approach to investigate the public trust in A paps in metal health car (MHC) by identifying the dominant topics and themes in sucre review of the B most relevant metal health. (MH) apps with the largest numbers of reviewers. MCTHODS: We searched Goage Play for the top MH apps with the largest numbers of reviewers, from which we selected the most relevant apps. Subsequently, we extracted data form user reviewe posted from January 1, 2020, to April 2, 2022. After cleaning the extracted data using the Python test processing tool spGAC, we ascertain the optimal numbers of topics, drawing on the coherence scores and used lated Dirichel allocation (DA). The top 20M apps with the largest numbers of topics, drawing on the coherence scores and used lated Dirichel allocation (DA). The top 20M apps of them ton 32 ability apps with the largest numbers of reviews r, from Yubox visualization of Lifelds in topics and these paper large topic strings of the top 20M apps (T). Mapper Theory, (T) MMODE: Tool Comparison, (E) TabiLife for Anniety, Depression & Stress; (S) 7 Cupp. Dimite Theory for Metal latal alls, databeting to Heatron, (E) tabiLife for Anniety, Depression & Stress; (S) 7 Cupp. Dimite Theory for Metal latal alls, advately, (E) Istertifies - Theory, (T) MMODE; (T)	10.2196/38799	
V. Shestak, Gura, D., Khudyakova, N., Shaikh, Z. A., Bokov, Y.	Chatbot design issues: building intelligence with the Cartesian paradigm	Evolutionary Intelligence	2022	1	5	4 2351- 2359	Artificial intelligence, Model of consciousness, Neural networks, Philosophy of consciousness, Botnet, Building intelligences, Chatbots, Design issues, Human ilke, Human user, Network architecture design, Neural networks architecture, Neural-networks, Network architecture	The article discusses the functioning of human-like consciounces and the potential for developing a shutbot based on human- like consciounces. The proposed approach was writed experimentally using a solutogical method and by attracting a cohort of student volunteers. The chalsed population was created on the back do our complex neural network architecture design. The volunteers were advected to learitly their interfactorus, which was well been approxed to the study of	10.1007/s12065-020-00358-2	https://www.scopia.com/inward/recod u.in?iet3- 21.4369515/34846ab-i0.10.007%2/51265-020- 00358- 8.gaptner/10-40&md5-077bdebcc80f01ce005b1/79 914733c
D. Shin	The perception of humanness in conversational journalism: An algorithmic information- processing perspective	New Media and Society	2022	2	1	12 2680- 2704	algorithmic information processing, anthropomorphized chatbots, conversational journalism, explanatory cues, perceived humanness, social cues in Al, two-step flow	How much do anthropomorphisms influence the perception of users abox whether they are conversing with a human or an agarithm in a state to environment? We develop a cognitive model using the constructs of anthropomorphism and explanability to explain user experiences with conversational journalism (CI) in the context of ratabot news. We examine how users perceive antirupomorphic and explanatory curse, and how these stimuli influence user perception of and attudues toward CL Anthropomorphic explanations of why and how certain items are recommended afford users a sense of humanness, which then affects trut and emotional assumance. Perceived humanness triggers a to varies frow of interaction by defining the baseline to make a judgment baot. The qualities of Q and by affording the capacity to interact with chatbots concerning their interimon to interact with chatbots. We develop parcial imigrations releaved to chatbots and ascertain the significance of humanness as a social cue in CL. We offer a theoretical lens through which to characterite humanness as a key mechanism of humanness that all lengines (A) in teraction, of which the eventual goal is humans perceive A Ja human being; Cur results help to better understand human-chatbot interaction in CL by illustrating how humans interact with chatbots and explaining why humans accept the way of CL @ The Austor(i) 2021.	10.1177/1461444821993801	https://www.scopus.com/inward/record_un?eids2- 220- 851023437888406-10.1177%2/14614482199380 85102343788460-10.1177%2/14614482199380 33a3c06fb
M. Skjuve, Følstad, A., Fostervold, K. I., Brandtzaeg, P. B.	A longitudinal study of human-chatbot relationships	International Journal of Human Computer Studies	2022	16	3		Human-chatbot relationships, Social chatbots, Social penetration theory, Chatbots, Formation process, Human-chatbot relationship, Longitudinal study, Penetration theory, Social chatbot, Substantial variations, Uncertainty	Social chattock have become more advanced, pairing the wary for human-chattoch relationships (IICKa), Although this optionmore has already received one research attention, the results have been constrainticity and there is uncertainty regarding hour to understand HCR formation. To provide the needed isonaleging on this phenomenon, we conducted a qualitative longituring tastup. We interviewed 25 participants one at 12-week periods to understand how their HCRs formation with the popular chattole Regima. We found that the HCRs formed gradually and mostly in line with the assumptions of Social Penetration Theory. Our findings indicates the need to acknowledge substantial variation and nunce in the HCRs formation process pilu variation in the onset of cell disclosure and in the subsequent relationship formation. The results show that important drives going the relationship toward attachment and perceived doeses spacer to be Regima's ability to participate is a variety of interactions, as well as to support more deep/eff human needs related to social contact and self- relations. Incruits ungredictable were atta checking all difficults could hinder relationship formation and lead to termination. Finally, we discuss the appropriateness of using a theoretical fornework developed for human-human relationships when investigating HCRs, and we suggest directions for future research. © 2022 The Authors	10.1016/j.ijhcs 2022.102903	https://www.scopus.com/imward/record_uiri?elds2- 2-0- 8513596982840-10.1016%2F,ijhcs.2022.102903 &gartner0-0-028.md5-0c81631df6770f84410ds4e2 b26d6330
C. Stokel- Walker	Al bot ChatGPT writes smart essays - should professors worry?	Nature	2022				Computer science, Education, Lab life, Society		10.1038/d41586-022-04397-7	
C. Stokel- Walker	Al bot ChatGPT writes smart essays — should academics worry?	Nature	2022				computer, education, note		10.1038/d41586-022-04397-7	https://www.embase.com/search/results?subaction =viewrecord&id=L2020529889&from=export, http://dx.doi.org/10.1038/d41586-022-04397-7
A. Suárez, Adanero, A., Díaz-Flores Garcia, V., Freire, Y., Algar, J.	Using a Virtual Patient via an Artificial Intelligence Chatbot to Develop Dental Students' Diagnostic Skills	International Journal of Environmental Research and Public Health	2022	1	9	14	chatbot, data analysis software, article, artificial intelligence, cross-sectional study, dental student, dentistry, female, human, male, questionnaire, skill, student satisfaction, virtual reality	Is coving how to diagone effectively and efficiently is a fundamental will that a good dental predictional should acquire. If students profram a genetic number of clinic causes, they will improve their performance with patients. In this sense, virtual patients with antificial intelligence offer a controlled stimulating, and asfe environment for students. To assess student students accurate the student student structure of the student structure and the student students. To assess student stude was carried out in which a virtual patient, was created with artificial intelligence in the form of a chatbol and presented to fourth and fifth year dental students. And research students were satisfied with the interaction (mean 4.3b; the fifth year dental students. And research to students were satisfied on which were levels as survey to find out their correct diagnosis rated this technology more positively. Our research suggests that the incorporation of this technology in dettal currical word be positively valued by students and would also ensure their training and adaptation to new technological developments.	10.3390/ijerph19148735	http://www.embase.com/aca/h/esulfs/bulacion wiewreardafki-102103551348/mmespart, http://dx.doi.org/10.3390/jjerph19148735
S. O. Thimmel, Klümpers, V., Nübling, M.	Strengthening the resilience of the blood supply chain by exploiting the exploiting the advantages of digital information technology	Transfusion Medicine and Hemotherapy	2022	4	9		4 adult, blood transfusion, conference abstract, content analysis, drought, human, human tissue, information technology, interview, manager, pandemic, physician, process model, simulation, validation process vein	Background: The provision of safe and high-gaility blood is a great challenge particularly in times of crises. It is important that blood estabilishmest can rely on adequate and timely information, as well as on engregory plans. The automose explore the South African blood transfulsion system as a react object as it is under diverging plans. The automose explore the South African blood transfulsion system as a react object as it is under diverging plans. The automose plans the south Methods: First, we conducted interviews with experts from both the blood transfusion and crisis management systems to diverging the process steps from vein-to-vein. Third, we collected publicly available documents published by WhO, crisis management across, and the blood estabilishments under investigation to triangulate data. We analyzed the data applying qualitative content analysis. Based on the inferred process model of the blood supply chain, we identified weak points, where the inregation of information technology wide bloods. Transfusion system is fairly resilient. The analyzed blood acatabilishment has good working relationships with the regoostibe crisis management plans data. See analyzed the and as asymptozis, Results. The interviews percentime the South African blood transfusion system is fairly resilient. The analyzed blood transfusion between percentime of the systems of transfusion system in their crisis management planming activities. Stills, there is a subtend for domestin, estimation, system in their crisis management planming activities. Still, there is a monitoring, and integration of the Taystems of inosphal/crisis management actors. The crisis-time atods transfusion systems. Exact on a successful example and inferred holds: transgrate mergency plans, this approach will be transferred to the Africas counter. Conclusion from the inosphal/crisis management actors with blood estabilishments are promising accession systems. Based on a successful example and inferred holds: therefores a data inferred to other Africas	10.1159;000525886	https://www.embase.com/sara/r/erul7s/butchine- wiewrecord8ii-clo0401368/mo-eeport, http://dx.doi.org/10.1159/000525886

C. Tzelios, Contreras, C., Istenes, B., Astupillo, A., Lecca, L., Ramos, K., Ramos, K., Roca, K., Galea, J. T., Tovar, M., Mitnick, C. D., Peinado, J.	Using digital chatbots to close gaps in healthcare access during the COVID-19 pandemic	Public Health Action	2022	12	4	180-185	SAR5-CoV-19, e-health, healthcare utilization, innovation, mental health	NTRODUCTION: Chabots have emerged as a first link to care in recent years. The COVID-19 pandemic, and consequent health system dirugations, expanded their use. Socio In Salud GSSJ introduced datatots in Prav, which experienced one of the highest execs COVID mortalities in the world. MENDOS SSB and the guerment detentifies (umme population hash mesh, which could be amenable to virtual interventions. Chabots were developed to storem individuals for these conditions, we describe the papel of displayment, number of screenings, and number of papel who neceside astrones. RSUSTS, Beneve April 2020 and May 2021; SS deplayed nine Chabots. Four for memal health, two for maternal and hith health, and there for disrout displays and the standard strength and the standard strength. Mendo health chabots have a papel address circuit care, hyperster, This, doale the maternal and hith health, and there for disrout and address circuit care, hyperster, This, doale the maternal and hith health. Chabots may provide the strength address circuit care, hyperster, This, doale the maternal and bath. Chabots may provide the strength address circuit care of history. This is likely dependent on several factor, including condition, population, and penetration of neart phones. Future research will be critical to understand user experience and preferences and to ensure that shabots link vulnerable populations to appropriate, high-quality care.	10.5588/pha.22.0046	
M. J. P. van Bussel, Odekerken, G. J., Ou, C. Swart, R. R., Jacobs, M. J. G.	Analyting the determinants of accept a virtual assistant and use cancer patients: a mixed methods study	BMC Health Services Research	2022	22	1		Cancer, Chabbos, Conversational agents, Healthcare, Patients, Virtual assistants (VAs), sufficial intelligence, behavior, human, assistants (VAs), sufficial intelligence, behavior, human, model, Humans, Intention, Models, Theoretical Models, Theoretical, Nopolasm, Surveys and Questionnaires	Background: Technological progress in artificial intelligence has led to the increasing popularity of virtual assistant, Le, embodied of dismodied conversational agents that allow charitary with a technical system in a natural language. However, only little comprehensive research is conducted about patients' perception and possible applications of virtual assistant in healthcare with camper patients. This research aims to investigate the by a cognitizen factors and yube adding use cases of a virtual assistant of patients disgnosed with cancer. Methods: Caulitative interviews with eight former patients and four doctors of a built andiotherapy institute were conducted to determine what acceptance factors. Brief und acceptance and use of technology (UTAUT) was used to structure perceptions and was indictively modified as a result to interviews. The subsequent research model was transplated via an online survey with 127 respondents diagnosed with cancer. A structural equation model was used to determine the relevance of acceptance factors. They don't the interviews. The education of the structure perceptions and to determine the relevance of acceptance factors. They don't the interviews for a structure angle subsequent research equation to the survey with 127 respondents diagnosed with cancer. A structural equation model was used to determine the relevance of acceptance factors. They don't that the constructs performance expectancy (E a 528), effect opercentum (E a 52.53, structures), factors of the trace factors of the structure behaviori intertion to use a virtual assistant, explaintments. The quaritative study found that the constructs performance expectancy (E a 52.58), effect opercentum (E a 52.53, structures), for the evelopment and that that factors of the evelopment and intertion. Conclusions: Performance and effort expectancy are the leading determinants of virtual assistant acceptance. The latter is dependent on a patient's infertionally with users.	10.1186/s12913-022-08189-7	https://www.scopu.com/invard/record.un/16d5- 20 65133772320460-10.1186K/2112913-022- 08189- 78pathretir0-408md5-efc12508/2c42a0094a7e2c5 a25e96ef
E. S. B. Verdesoto, Ortiz, M. Y. R., Herrera, R. J. G.	A System for Converting and Recovering Texts Managed as Structured Information	Sci Rep	2022	12	1	22249	*Natural Language Processing, *Language, Data Mining, Databases, Factual	This paper introduces a system that incorporates several strategies based on scientific models of how the brain records and records memories. Methodologically, an incremental prototyping approach has been applied to develop a statistatory architecture that can be dedpet to any humage. A special case is studied and testing regarding the Spannia hangage. The applications of this proposal are wast because, in general, information such as test way, reports, musik, and web context, and ong others, is considered unity tables and hence, the reportiones lasked of 32 (attabases sually do to thanket his label data correctly and efficiently. The conversion of unstructured testual information to structured one can be useful in contexts using a Network (and general conversion of unstructured testual information to structured one can be useful in contexts using a Network (and general conversion of unstructured testual information to structured testual in contexts using a Network (and general conversion of unstructured testual information to structured testual information using a Network (and general conversion of unstructured testual information to structured testual information using a Network (and general conversion of unstructured testual information to structured testual information using a Network (and general conversion of unstructured testual information testual information testual information using a Network (and general conversion of unstructured testual information testual information using a Network (and general conversion of unstructured testual information testual information using a Network (and general conversion of unstructured testual information testual information using a Network (and general conversion of unstructured testual information testual information using a Network (and general conversion of unstructured testual information testual information testual information using a Network (and general conversion of unstructured testual information testual information testual information us	10.1038/s41598-022-26304-w	
P. Voege, Abu Sulayman, I. I. M., Ouda, A.	Smart Chatbot for User Authentication	Electronics (Switzerland)	2022	11	23		authentication, big data, chatbots, machine learning, natural language understanding	Despite being the most widely used authentication mechanism, password based authentication is not very secure, being easily guessed or buile-forect. To address this, many systems which expecially value security adopt Multi-Factor Authentication (MFA), in which multiple different authentication mechanisms are used concurrently. AIIDA (Lutis-Hime human dynamics based authentication engine) is an eval submittation which can add another option to MFA capabilities. JHIDA observes human behaviour and human dynamics to gather up to date information on the user from which authentication questions can be dynamically generated in this paper propose a system that implements SHAD, which we call Autoencomes inquiry-based Authentication Chattol (LMC), AIAC uses anomalous events gathered from a user's needs at Autoencomes inquiry-based Authentication Chattol (LMC), AIAC uses anomalous events gathered from a user's needs at Autoencomes inquiry-based Authentication chattol (LMC), AIAC uses anomalous events gathered from a user's needs at Autoencomes transies of data gathered daring authentication essions. Just to using the user's needs at Autoencomes authentication scenes actions by the dynamical type encoded and the user's needs at Autoencomes authentications come questions will be dynamically generated to replace old ones. We intend to show in this paper that AIAC is a valable implementation of SHIDA. © 2022 by the authors.	10.3390/electronics11234016	https://www.scopus.com/nward/record.un?eld=2- 2-0- 85145352268&doi=10.3309%2/electronics1123401 6&gartner10-40&md5-db622aa9ed9aeff30c61/2bea 581beb75
U. Volpe	New way of Providing Care: the Role of Telemental Health	European Psychiatry	2022	65		S43	adult, cell phone use, chatbot, conference abstract, cornavirus diseaze 2019, digital technology, education, health care practice, human, mental disease, mental health, meralt health care, mental health car	Telemental health care can be defined as the delivery of mental health care services at distance, by using information and communication technologies for the exchange of valid information for diagnosis, treatment and prevention of mental illnesses, as well as for research and doutation in the field of chiral pay-parkary. While telement health care partice working, mental health care partice working, and health care partice working. Although the process of rapid sticks, algobal increase of the use of digital technologies has been reported. On the other hard, such recent events have also sticks adaption working working working treasment working evolution to mobile phones applications, of social media, of immersive enality and chatbots in novel digital psychiatry. In one detail, the use of mobile phones application, of social media, of immersive enality and chatbots in novel media health care, the research evidence met heydoft orm of psychiatric partices, and results and the relative lack of arrivas and results working evolution to partice here the start heydoft orm of psychiatric partices, and results and the relative lack of arrivas and results and the media health care, here, the research evidence and the most compelling implementation issues in digital psychiatry will be reviewed.	10.1192/j.eurpsy.2022.147	http://www.embase.com/search/results?hubaction =viewrecord8id=L596868558From=export, http://dx.doi.org/10.1192/j.eurpsy.2022.147
S. Wang, Wei, J., Sabne, A., Davis, A., Ilbeyi, B., Hechtman, B., Chen, D., Murthy, K. S., Maggioni, M., Zhang, Q., Kumar, S., Guo, T., Xu, Y., Zhou, Z.	Overlap Communication with Dependent Computation via Decomposition in Large Deep Learning Models		2022			93-106	Collective communication hiding. Compiler optimization, large scale machine learning, Convolutional codes, Data transfer, Deej hearning, Learning systems, Collective communications, Compiler optimizations, Data- communication, Compiler optimizations, Data- communication, Compiler optimizations, Data- communication, Compiler and the system optimization trage-scale machine learning, Layer model, Learning models, Computational efficiency	Large deep learning models have shown great potential with state-of-the-art seaks in many tasks. However, running these large models is just challenging on an accelerator (GPU of TVI) because the on-dwise memory is too limited for the site of these models. Intra-layer model parallelism is an approach to address the issues by partitioning individual layers or operators accoss multiple devices in a distributed accelerator (using curve), the data communications generated by intra-layer model parallelism can contribute to a significant proportion of the overall execution time and severely hurt the computational etchicine, as intra-layer model parallelism is critical to enable layer devices in device by hurt the computational etchicine, as intra-layer model parallelism communication curve). The proposed technique, an identified original communication curve is advocument, the proposed technique, an identified original communication curve) is parallelist. The device hybrid by exceeding the enable of proposed technique, an identified original communication curve) is parallelist. Teleforthy lists the data communication coreated, finer grained operations, by creating more overlapping communication exceeding the relayer coreated, finer grained operations, by creating more overlapping opportunities and executing the revely coreated, finer grained operations, by creating more overlapping communication comparation. The trailing parameters, the proposed technique improves system throughout by 114–138s. The achieved highest peak 1005s utilization is 72% on 1024 TPU chips with a large language model that has 500 billion parameters. © 2022 Ower/Author.	10.1145/3567955.3567359	https://www.sopus.com/inward/record.uti7eid=2- 2-0- 85145924828.doi-10.1145%27857958.35679598 gortwert0-e0&md5-0b3c33566778b1e70d7bd578a 2d8ad3e
J. B. Whang, Song, J. H., Lee, J. H., Choi, B.	Interacting with Chatbots: Message type and consumers' control	Journal of Business Research	2022	153		309-318	Augmented reality, Behavioral control, Chatbets, Cognitive control, Personalization, Sales assistants	With advances in technology, personalized services provided by offline salespeople are replaced by new sales assistant methods, such as personalized chalbost in online and mobile environments. However, providing conversations based recommendations may be insufficient to support consumers to indire or mobile store beause they cannot experiment the product in real-line. Assistances on them provides one-to-one sustances to approximate the provides one-to-one sustances to approximate the provides one-to-one sustances to cannot be approximate to approximate the provides one-to-one sustances to cannot be approximate to approximate the provides one-to-one sustances to cannot be approximate to approximate the control one sustances and the provides one-to-one sustances to cannot be approximate to approximate the control one classical and the on-to-one sustances to cannot be approximate to approximate the control one classical and the on-to-one sustances to cannot be substituted and the substitute of the control one classical and the mechanisms by which comumers accept chalboss. The results indicate that a higher level of personalized chalbost message enhances purchase interior flow provides one save and understanding of the product. Moreover, additional real-time visual information (i.e., AR) supports chalbots in acting as successful sales assistants. © 2022 Elsevier Inc.	10.1016/j.jbusres 2022.08.012	http://www.scopus.com/inward/record.un?eids2- 520- 53136637818doi=10.1016%2fj.jbusres.2022.08.0 128partner10-408md5-eddu21e0248asf3b93094d 935ee01319
B. K. White, Martin, A., White, J. A.	User Experience of COVID-19 Chatbots: Scoping Review	J Med Internet Res	2022	24	12	e35903	Humans, *COVID- 13/epidemiology, Pandemics, Hallin Service, 200419, chattor, digtal health, Hallin Information, pandemic, user experience	BACKGROUND: The CDVID-19 pandemic has had global impacts and caused some health systems to experience substantial pressure. The need for accurate health information has been felt widely, Datatots have great patential to reach people with authoritative information, and a number of datatots have been quickly developed to diseminiate information abad COVID-19 however, III this is hown about use experiences of and perspectives on these tools. DBICETIM: This study almost to describe the DBIC of the DBIC of	10.2196/35903	
D. Wulf, Bertsch, V.	Corrigendum to "A natural language generation approach to support understanding and traceability of multi- dimensional preferential sensitivity analysis in multi- criteria decision making" [Expert Syst. Appl. 83 (2017) 131-144 ((2017) 331-34 (144), (10.01046/j.ewa. 2017.04.041))	Expert Systems with Applications	2022	208				The authors regret that the private e-mail address of David Wulf is not used for scientific communication anymore. We kindly as to remove the e-mail information of author David Wulf. The authors would like to apologise for any inconvenience caused. ID 2022 Elsevier Ltd	10.1016/j.etwa2022.118322	https://www.scopus.com/inward/record.un?eid=2- \$2.0- \$3737818938doi=10.1016%2fj.eswa.2022.11832 Z8partner/D=408mds=9fbaba054c2ef5241cf04d1 412adf98

Y. Yamada, Tomoi, H., Nishina, Y., Harada, K., Sasaki, S., Inaba, K., Mitaka, H., Takahashi, H., Passanate, A., Lin, L., Lau, E., Wu, J., Naito, T., Kobayashi, T.	Effect of a Mobile App Chatbot and an Interactive Small Group Webinar on COVID-19 Vaccine Intention and Confidence in Japan: A Randomized Clinical Trial	Open Forum Infectious Diseases	2022	9		\$158- \$159	SABS-GAV2 stactine, adult, adubto, conference abstruct, controlled study, demographicz, drug stafety, drug therapy, female, human, Japanese (people), major dinical study, male, mobile application, randomized controlled trial, vaccine hestancy, webinar	Background, Little is known about how social media pladforms can be used to increase COVE-19 section interest. We strend to increasing the the first of social media background intervention. Nethods: We construct at strenger randomized controlled trial between 5 November 2021 and 9 January 2022. Japanese aged 30 or 4bow who had not received and (COVD-19 vaccine) and dia not intered to be uncirted were androhy assigned to one of the following three grouss: (1) control group (with no intervention), (ii) a group with a fee chatbot in a popular messnege app called LNE ¹ , which provided general information on COVD-19 vaccines. The vaccine intertion (VI) and three pre-defined Vaccine Confletenc index (V), including the importance, safety, and directiveness of COVD-19 vaccines. The social interactive the provided participants with the information on COVD-19 vaccines. The vaccine intertion (VI) and three pre-defined Vaccine Confletenc index (V), including the importance, safety, and directiveness of COVD-19 vaccines. The social participants are shared to the control group correspondence in the chatbot group 21 (10). NRI social were balanced across three groups (Table 1). Among 3B periors single of the chatbot group 22 (10). Sinter dates when an and maxweed the post-survey maked to on difference in VI backets group 22 (15). Sinterded werbinan and maxweed the post-survey. The post-survey single of the webbar group 22 (15). Sinterded werbinan and maxweed the post-survey the post-survey the post-survey single of the webbar group. 20 (25). Sinterded werbinan and maxweed the post-survey the post-survey the post-survey single of the webbar group. There was no difference in VI of the single process divers with the Q and a provided by professionals may have a role in increasing COVD-19 vaccine confidence. Given the degree of vaccine hestancy wersend over time in the control group, terves single GOVD-19 vaccine confidence. Given the degree of vaccine hestancy wersend over time in the control group. Jaccase stre	10.1093/offid/office492.302	https://www.embase.com/arait/iresid17/iresid17/ibeddfo inversecratific info/20225584/mereport, http://dx.doi.org/10.1093/ofid/ofic492.302
X. Yang, Chen, A., PourNejatian, N., Shin, H. C., Smith, K. E., Parisien, C., Compas, C., Costa, A. B., Flores, M. G., Zhang, Y., Magoc, T., Harle, C. A., Lipori, G., Mitchell, D. A., Hogan, W. R., Shenkman, E. A., Bian, J., Wu, Y.	A large language model for electronic health records	NPJ Digit Med	2022	5	1	1 194		There is an increasing interest in developing artificial intelligence (A) systems to process and interpret electronic health neodel (IRBN, Natural Inaquee processing (NP)) powered by pretrained impage models in the key technology for medical Al system utilizing dinical narratives. However, there are few clinical language models, the largest of which trained in the dinical domain is comparatively small as 110 million parameters (compared with billions of parameters in the general domain). It is not clear how large clinical language models with billions of parameters in the general domain. It is not clear how large clinical language models with billions of parameters and Pd) medical Al systems utilizing clinical concept extraction, works of electricitic semantic tractical language models classofter outsige 300 billion versit of set (Paiculang 322 billions works of electricitic semantic tractical and imarity, natural language inference (UI), and medical question anxieving (MQQ). We examine how (1) scaling up the number of parameters and (2) scaling up the size of the training data could benefit the clinical ML assist (e.g. 556 and 55 km) symptoment in size scale (N kM), which can be applied to medical Al systems to improve habithcare delivey. The ClatorTron mides 300 (V), which can be applied to medical Al systems to improve habithcare delivey. The ClatorTron models are publicly available at: https://catalog.ngc.midia.com/orgi/midia/team/clara/models/gatortron_og.	10.1038/+41746-022-00742-2	
X. Yang, Chen, A. K., PourNejatian, N., Shin, H. C., Smith, K. E., Parisien, C., Compas, C., Costa, A. B., Flores, M. G., Zhang, Y., Magoc, T., Margoc, T., Harie, C. A., Uipori, G., Mitchell, D. A., Hogan, W. R., Shenkman, E. A., Bian, J., Wu, Y. H.	A large language model for electronic health records	NPJ DIGITAL MEDICINE	2022	S	3			There is an increasing interest in developing artificial intelligence (A) systems to process and interpret electronic health neodel (EMR). Natural Inaquege processing (MP) proveed by pretrained Impage models, the largest of which trained in the distribution utilizing clinical narratives. However, there are few clinical language models, the largest of which trained in the distribution is comparatively small as 110 million parameters (compared with billicon of parameters in the general domain). It is not clear how large clinical language models with billicon of parameters and heat model. Al systems utilizing clinical increases that the statistical statistical system works of electrotic developments. The statistical and the statistical and the statistical systems and the statistical systems and the statistical system and the statistical systems and the statistical market in the statistical system and the statistical market in the statistical system and the statistical market is and the parameters and [2] scaling up the size of the training data could benefit the clinical MP and the statistic systems of the statistical market models and the statistical systems and systems and systems and systems to ingrove healthcare delivery.	10.1038/441746-022-00742-2	
S. Yu, Zhao, L	Designing Emotions for Health Care Chatbots: Text- Based or Icon- Based Approach	J Med Internet Res	2022	24	12	2 e39573	Humans, *Text Messaging, Emotions, Delivery of Health Care, behavioral intention, chatbot, design, emotion, emotional intensity, health care, human behavior, icon- based, perception, predict, psychological distance, text- based		10.2196/39573	
C. Zhai, Wibowe, S.	A systematic review on cross- culture, humor and empathy dimensions in conversational chattots: the case of second language acquisition	Helyon	2022	8	1:	2 e12056	Artificial intelligence, Chabtoy, Culture, Empahy, Humor, Second anguage learning, Isted immediately below certify that he as NO affiliations with on organization or entity with organization or entity with any financial interest (such as honorara, educational grants) bureaux, membership, employment, consultancies, stock ownership, or other employment, consultancies, stock ownership, or other financial interest (such as special or grantes) and expert testimory or, patent-licensing strangements), or non- financial interest (such as special or grantes) stocket of the strange of the strange strangements of the strange of the strange strange or the licensing strange or materials discussed in this manuscript.	The advancement of information and communication technologies has led to an increasing use of conversational chattots in the learning and technologies setting, and technologies and setting and technologies of the second language (21) acquisition. In the field of second language acquisitor, the development of enginestic startiegies for densing the meaning is of technologies and the consideration of learners' caltural backgrounds. Thus, this study reviews the easing studies on Al second language (21) and a study in the development of enginestic learners (and the development of enginestic learners) and the development of enginestic learners (and the development of enginestic learners) and the consideration of learners' caltural backgrounds. Thus, this study reviews the easing studies on Al second language (21) and other the development of enginestic learners (and the development of enginestic learners) activates and the development of enginestic and the development of enginestic and the development of enginestic and the development of an Al chabots in the calture development of enginestic and the study and result algoritor and the technologies of the angle factors and the enginestic and the advelopment of an Al chabots in the development of an Al chabots in the development of an Al chabot in the development of an Al chabot in the development of an all chabots which include thergent grant construlute anguage transfer enginestic and the study and result and and the development of an Al chabot in the development of the advelopment of an Al chabot in the development of the advelopment of an Al chabot in the development of the advelopment of the advelopment of the advelopment of the development of the advelopment of the adve	10.1016/j.heliyon 2022.e12056	
C. P. Zhai, Wibowo, S.	A systematic review on cross- culture, humor and empathy dimensions in conversational chatbots: the case of second language acquisition	HELIYON	2022	8	12	2	Artificial intelligence, Chatbot, Second Ianguage learning, Culture, Empathy, Humor, ENGUSH, AGENT, MULINONESS, FORCEPTONS, STUDENTS, CONTEXT, HEALTH	The advancement of information and communication technologies has led to an increasing use of conversational chatbot in the learning and teaching sector, especially for the second language (12) scatisticion. In the field of second language scatisticion, the development of megatistic strategies for details with laners' comtools all discredules. The length of human and the consideration of learners' colutual lackgrounds. Thus, this study reviews the existing studies on A second language (12) details the development of an Aris Study Cond that the dimensions studies and the consideration of learners' colutual lackgrounds. Thus, this study reviews the existing studies on A second language (12) datatots to investigate the development of an Aris Study Cond that the dimensions study is coluture), anguated of this study, prior studies from 2012 and 2022 of serveral popular databases, including Web of Science, ProQuest, IEE and ScienceDirect an order development of an Aris Study Cond that three dimensions studies and culture), empetities and humorous dimensions have a positive influence on the application of AI 12 chatbots for enhancing learners' learning outcomes. This study also found that the development of an AI 12 chatbots which include integrating cross-cultural empathetic responses in conversional L2 chatbots (perfuring low learners preview and react to the learning content, and investigating the effects of cross-culture humor on learners' language proficiency.	10.1016/j.heliyon.2022.e12056	
T. Zhang, Feng, C., Chen, H., Xian, J.	Calming the customers by AI: Investigating the role of chatbot acting-cute strategies in soothing negative customer emotions	Electronic Markets	2022	32	2	2277- 2292	Acting-uet strategies, Artificial intelligence, Chatbot, Negative custome emotion, Product or service failure	Although intelligent chattloch tab been wickly used in online customer service settings in nodern E-business, scholars still have tittel understanding of the chattod strategies implemented in product or service failure context. Alling at this gas, this study explored whether, how, and when two chatbol acting-cute strategies (i.e. whimsial chatbot strategy out such scholars thattod strategy could soche negative customer emotions when product or service failure lappende. Sty using two experimental studies, the results demonstrated that both the whimsial chatbot strategy and the indemonstratement schemal of abattod strategy could packed angebre customer emotions who who enclamations. In the high product or arvice failure service y context, the soching effects of both strategies would weaken, while the kindchenschema fablot strategy wasters less. The whimsical chatbot strategy is sublable for uschneres while the kindchenschema chatbot strategy was more effective with male customers than with freniae customers, while the kindchenschema chatbot strategy was more effective with male customers than with thereal customers, while the kindchenschema chatbot strategy was more effective with male customers than with thereal customers, while the kindchenschema chatbot strategy is sublable for those who have low technology anxiety. The whimsical chatbot strategy was more effective with male customers than with the kindchenschema chatbot strategy was more effective with male customers than with the kindchenschema chatbot strategy was more effective with male customers than with the kindchenschema chatbot strategy was more effective strategy and the appoint excited of an anagerial implications were discussed. © 2022, The Author(s), under exclusive licence to institute of Applied informatics at University of Leipzie.	10.1007/s12525-022-00596-2	https://www.scopus.com/inward/record un?ede3- 20-0531048565860ei-10.1007%zfs12525-022- 00596- 28.gantracfi0-40.8md5=c70ff34566838f23e6889ec6 01e497ea
M. Y. Zhao, Huang X. W., Sang, J. T., Yu, J.	Survey on Conversational Recommendatio n Algorithms	Raan lan Xue Bao/Journal of Software	2022	33	12	2 4616- 4643	conversational recommendation system (CRS), human-computer interaction, recommendation system, user modeling. Behavioral research, Human computer interaction, Information filtering, Reinforcement learning, Speech processing. User profile, Conversational recommendations, Dialogue system, Offinie, Offinie models, Ordine users, Recommendation algorithms, User data, User Modelling, Recommendation algorithms, User data, User Modelling,	Recommeder system is an information fittering system that helps users fitter a large number of invalid information to tobatin information or times by estimating their interests and preferences. The mainstream califoral accommediation system mainly uses offline and historical user data to continuously train and optimize offline models, and then recommediation system mainly uses offline and historical user data to continuously train and optimize offline models, and then recommediation system mainly represented their main problems the unreliable estimation of user preferences by deflaced, data and obtains the user's cal- meter deflexed, data to data. Since the dalague system focuss on the user's real-line flexed, data and obtains the user's cal- interaction intentions, "conversational recommendation" combines the interactive form of the dalague system with the recommendation taka, and becomes an effective means to solve the traditional recommendation problems, and databat technologies, as well as the mature application of technologies such as reinforcement learning and knowledge graphs in recommendation strategies, in the past few yash; more and more researchers here alve attention to convestational recommendation to convestational recommendation to convestational recommendation strategies, in the past few yash; more and more researchers here evant metrics to available the effects in recommendation. This survey combin focusing on the lackground interaction strategy and recommendation strates in recommendation, this survey also summarizes the adaptional recommendation alrecommendation. © 2022 Chinese Academy of Sciences, All	10.1332 <i>8/j.cn</i> kijos.006521	https://www.scopus.com/inward/record.un?eld=2- 2-0- 85148334469&doi-10.13325%2J.cok.jos.0065218 Bartentin-LoB&md5=2316/b1a2eba3ef5d965502dcc b/dd51

A. Zhavoronkov	Rapamycin in the context of Pascal's Wager: generative pre- trained transformer perspective	Oncoscience	2022	9		82-84	Pascal's Wager, Rapamycin, artificial intelligence, longevity medicine, philosophy	Large language models utilizing transformer neural networks and other deep learning architectures demonstrated unprecedented results in many tasks previously accessible only to human intelligence. In this article, we collaborate with ChatGPT, an Al model develope by Openation to speculate on the applications of Rapanophysin, in the context of Pascal's Wage philosophical argument commonly utilized to justify the belief in god. In response to the query "Write an exhaustive research perspective on why taking Rapamycin may be more beneficial than not taking Rapamycin from the perspective of Pascal's wager" ChatGPT provided the prox and con for the use of Rapamycin condering the precinical evidence of potential life extension in animals. This article demonstrates the potential of ChatGPT to produce complex philosophical arguments and should not be used for any off-label use of Rapamycin.	10.18632/oncoscience.571	
X. Zhu, Li, R. Y. M., Crabbe, M. J. C., Sukpascharo en, K.	Can a chatbot enhance hazard awareness in the construction industry?	Frontiers in public health	2022	10		993700	artificial intelligence, building industry, communicable disease control, human, prevention and control, software	Safely training enhances hazard anareness in the construction industry, its effectiveness is a component of occupational safely and health. While here holes calefy training has dominated in the part, the frequent coldward, during (2001-19 have led us to estimin, new solutions. A chalbed is messaging software that allows posed to interact, obtain anavers, and handle salet and inquiries through a compart algorithm. While chalbes have been used for language decisions, not software that allows posed to interact, obtain answers, and handle salet and inquiries through a compart algorithm. While chalbes have been used for language decisions, not sub-instruction safely the experiment at the trainers. In this regard, we developed four Telegram chalbeds for construction safety research strategies are expected. The analyses such as heat mage or gase policies and training and designed expectances, and have adopted it for qualitative analyses such as heat mage or gase policies and training enhances the strategies are expected. The strategies of the strategies are analyses such as heat mage or gase policies and training enhances the strategies are expected. The strategies are analyses such as heat mage or gase policies and training enhances the strategies on the strategies of the strategies and the strategie	10.3389/fpubh.2022.993700	https://www.embase.com/arait/nisult/subation www.enrotikiie.classi281255&filmeneoon, http://dx.doi.org/10.3389/fpubh.2022.993700
M. Zvyagin, Brace, A., Hippe, K., Deng, Y., Zhang, B., Co, C, Gyde, A., Kale, B., Perez-Rivera, D., Ma, H., Mann, C. M., Irvin, M., Pauloski, J. G., Ward, L., Hayot- Sasson, V., Emani, M., Foreman, S., Xie, Z., Iin, D., Shukla, M., Nie, W., Romero, J., Dallago, C., Vahdat, A., Xiao, C., Gibbs, T., Foster, I.	Gen5Mk: Genome-sole Regrage models reveal AAS-CoV- 2 evolutionary dynamics		2022		(Zvyagin M.; Brace K.; Clyde Perez- Rivera H.; Mann H.; Ward L; Hayot- C.M.; Evan Kasson V.; Esasson V.; Esasson V.; Forema n S.; Kin Gasson D.; Shukla M.; Foset L; Shukla		computer, coronavins disease 2019, gene sequence, genome analysis, human, human experiment, language, nonhuman, pandemic, prediction, Severe acute respiratory syndrome coronavirus 2, variant of concern	We seek to transform how even and emergent variation of pandemic-auriling viruses, specifically ABS-CoV-2, are identified and disallinel, by adjusting lang language models (LIAM) of genomic data, we build genome scale language models (GentXM) which can learn the evolutionary lundscape of SAR5-CoV-2 genomes. By per-training on over 110 million prokanyolic gene sequences and fine-tuning a SAR5-CoV-2 specific model on 154 million genome, we show that GentSMA: can accurately and rapidly identify variants of concern. Thus, to our knowledge, GentSMs regressents one of the first whole genome scale foundation models which can generalize to other prediction takk. We demonstrate scaling of GentSMs on GPU-based supercomputers and AI-hardware accelerators utilizing 1.53 Zettaflops in training runs with a statistical performance of 121 PPLDS in midle prediction and peak of SOR PUDES. We present initial actientific insight from examining GentSMs in tracking evolutionary dynamics of SAR5-CoV-2, paving the path to realizing this on large biological data.	10.1101/2022.10.10.511571	http://www.embasc.com/sext//sext07/ www.contiditiou212283978/non-export. http://dx.doi.org/10.1101/2022.10.10.511571
	Tools such as ChatGPT threaten transparent science; here are our ground rules for their use	Nature	2023	613	7945	612	Artificial intelligence/dritic/legislation & jurispudence/trends, Ethics, Research, ** Jubialising effectisc/legislation & jurispudence/standards, Science/ethics/wethods/standards, Authorship/standards, Ethics, Machine learning, Publishing, Scientific community		10.1038/d41586-023-00191-1	
E Anhavor	Welcome to the Al future? Artificial	NATURE ASTRONOMY Brain Sciences	2023	7	1	01. Jan	adult Altheimer dicesce area	The launch of ChatGPT late last year has school teachers, conference organizers, Google and others worried, for different reasons. Where should we draw the line when it comes to artificial intelligence? There is currently on simple widdly available creaning mathed for Albheimer's disease (AD) earth because the disensitie of AD.	10.1038/s41550-023-01891-4	httns://www.amhasa.com/cearch/results2subaction
Liang, H.	Intelligence- Enabled End-To- End Detection and Assessment of Alzheimer's Disease Using Voice		2023	13	1		under the curve, article, artificial intelligence, artificial neural network, computer model, controlled study, decision tree, dementia, diagnostic test accuracy study, DNA extraction, female, heart rate variability, human, learning algorithm, machine learning, major clinical study, male, Mini	Is complex and typically involves expensive and sometimes invasive tests in dc commons a statest (<i>vu</i>), party excuse the diagnostic of AD dialocal statistics, lines, we developed an artificial intelligence (A) powerd end-to-end system to detect AD and predict its seeming strengt from voice recordings. At the core of our system is the pre-trained databace model, the first high-performance setting strengt from the voice recordings. At the core of our system is the pre-trained databace model, the first high-performance set-systemical algorithm that works for speech, values, and text. Due to high dataset containing voice recordings. At the core of our system to devide was internally evaluated on the ADReSSO describing the Cookie Their picture, and externally validated on a test datated from Dementialiants. The AI model can detect AD with an every area used the curve (ALC) of 2045 and 0.235 on their out and before all picture tests (respective). The model was an electer AD with an every area used by label on two entre configs. Diverse, the model can relative predict the subject's complex tests gas costley based on naive encodings. Due to study demonstrates the testskith y of curves to end model for early AD diagnosis and servity prediction directly based on voice, showing its potential for screening ADAmer's disease in a community setting.		-vtewreordial-to138848/in-exprt, http://dx.doi.org/10.3390/brainec13010028
							Mental State Examination, Montreal cognitive assessment, predictive value, propensity score, quality of life, quantitative structure activity relation, receiver operating characteristic, risk assessment, scoring system, support vector machine, time series analysis, voice			
F. Agbavor, Liang, H. L	Artificial Intelligence Enabled End-To- End Detection of Alzheimer's Disease Using Voice	BRAIN SCIENCES	2023	13	1		Mental State Examination, Montrael cognitive assessment, predictive value, propensity score, quality of life, quantitative structure operating characteristic, risk support vector machine, time series analysis, voice Alzheimer's disease, dementia, end-to-end, dataZavee, large graugage models, speech and language	There is currently no simple, widely available screening method for Abheimer's duesse (AD), partly because the diagnosis of AD is complex and typically movine expensive and sometimes invasive tests not commonly available outside highly specialized discussed to the test of the screening of the core of our system is the pre-stande databack model, the first high-periodical efficiency from voice recordings. At the core of our system is the pre-stande databack model, the first high-periodical efficiency from voice recordings. The core of our system is the pre-stande databack model, the first high-periodic describing the Coxist. Theft pricing, and externally validated on a test databack model and external the ADRESS describing the Coxist. Theft pricing, and externally validated on a test databack model can reliably predict the subject's calibrated (fromm-clemeshow goodness-of-fit p-value = 0.9416). Moreover, the model can reliably predict the subject's compline testing can voice recording. Our study demonstrates the testability of using the AJ-powered end- to end model for early AD diagnosis and swerity prediction directly based on voice, showing its potential for screening AJzheimer's disease in a community setting.	10.3390/brainsd13010028	
F. Agbavor, Liang, H. L. A. Ahmed, Hasan, A., Antz, S. Abd Arazag, A., All, N., A. Jassen, M., Arbana, D., Elbasin, M.	Artificial intelligence cabled End To- trached End To- mark Assessment of Albeimer's Disease Using Visice Chatbot features for anxiety and depression A scoping review	BRAIM SCIENCES Health	2023	13 29	1	1,5£+16	Mental State Examination, Montrael cognitive value, assessment, predictive value, organizations extructure assessment, predictive value, diffe, quantitative structure operating characteristic, rake series analysis, voice Alzheimer's disease, dementia, end-to-end, datazvec, large language models, speech and language models, speech and language models, speech and language models, speech and language models, conversational agents, depression 'Disorder, Mental Health, Conversational agents, depression	There is currently no simple widely available screening method for Albeimer's disease (AD), partly because the diagnois of AD is complex and typically involves expensive and sometimes involve tests not commonly available caddle highly specialized discussions and typically involves expensive and sometimes involve tests not commonly available caddle highly specialized testing, titrery, we developed an artificial intelligence (AI)-powered end-to-end system to detect AD and predict Its seening directly rows recordings. At the core of our system is the pre-trained large large caddle and the ADResSo (Albeiner's Demarks Recognition through Spontaneous Specerion) addates containing vole recordings. The model can detect AD with average area used to add the core of any system only dataset containing vole recordings. The model was attested alibrated [Kismer-Lemeshow goodness-of-fit p-value = 0.9516]. Moreover, the model can reliably predict the subject's complex testing society based on nav once recordings. Dut data dataset the stability of using the AI-powered end to-end model for early AD diagnost and severity prediction directly based on voice, showing its potential for screening Aliberner's disease. The solution to patients in assessing and guiding management of various health problems peritoularly when human resources are scarce. Datables can be for datable and efficient or databaset with assistants for mental bealth conditions, including indexing and any difficulty and on forwards reference list checking. The initial search returned 1302 citation. Park Hitting, 42 studies remained forming the final dataset of this scaping review. More of the studies were form conference proceedings (202, 26/42), followed by journal articles (205, 11/42), reports (7n, 3/42), we book shapters (55, 26/42). About half or the reviewed databaset, particularly used in these studies only 786 (11/42) calce heat the functional transforming testing is postantices. The situation and provide visuable support to main heatthcare wo	10.3390/brained13010028	
F. Agbavor, Liang, H. L. A. Abmed, A. Bassan, A., Antr, S. Adama, A. Alana, M., Aithana, B., Solog, A. Anned, M., Househ, M., Househ, M., Househ, M., Boueh, M., Boue	Artificial Intelligence Enabled End-To- End Detection of Alzheimer's Disease Using Voice Chatbot features for andety and depressing A scoping review Exploring Chatboff for information of cardiopulmonary resuscitation	BRAIN SCIENCES Health Informatics J	2023 2023 2023	13 29 185	1	1,55+16	Mental State Examination, Montrael Cognitive Valaes, assessment, predictive value, dife, spannitistive structure info, spannitistive structure operating characteristic, risk assessment, scoring system, spoper vector machine, time series analysis, voice Altheimer's disease, dementia, end co-end, data2vec, large language models, speech and language Humans, "Dependion" (Nerapy, "Dependion") Kerapy, "Dependion Kerapy, Theotal Disorders, Mental Health, Software, Anxiety, chattots, depression	There is currently no simple, widely available screening method for Alzheimer's disease (AD), partly because the diagnosis of AD is complex and typically involves expensive and sometimes invasive tests not commonly available outside highly specialized dinacia stratings. Incre, we developed an artificial intelligence (AI) powered end-to-end system to detect AD and predict Its seening directly from once recordings. All the core of our system is the per strated databace model, the first high-performance self-supervised algorithm that works for speech, vision, and text. Our model was internally evaluated on the ADReSO (Alahemer 1) Encording Systemanous Speech (Vision), and text. Our model was internally evaluated on the ADReSO with average area under the curve (ALC) of D&B6 and D.B155 on held-out and external test set, respectively. The model was self- calibrated (Normer, Halc) of D.B266 (Partice) and the curve of the strategies of a relative predict to subject is complice testing score solely bated on raw visice recordings. Our study demonstrates the feasibility of using the AI powered end- thoem model for any AD diagnosis and events on the alfordist and external test set, respectively. The model was self- calibrated (Normer, AD diagnosis) and exist on the alfordist and efficient on-demark diversity of scores ing Alahemer 5 disease in a community setting. Character settings and gaiding management of various health problems particularly endem human encourses are scares. Character on the alfordist and efficient on-demark diversity area based. Sidbilargaphic diabates were scared enditing lackward and relative lackscare. More lackscare, the sole obstates (Sid2) targeted on dispersion. We review feature of character settings and dispersion. Six bibliographic dispersion allowed (Cid2) aniety and the resuing addressed on the metal health is accel, testing (Sid2) assed and the remains gaddressed on the metal health end efficient on-demark diversion (60%, Sid2), whereas alther therains gaddressed on thermative	10.3390/brainsc13010028	

S. Anand, Raj, D., Sai, A. M. A., Rao, S. N., Vinodini Ramesh, M.	Techno-Social Synergy for Disaster Resilience in Coastal Communities : A Sustainable Approach		2023			366-371	Al chabbot, Coastal community participation, Disaster risk reduction, Emergency response, Neural networks, Climate change, Emergency services, Floods, Losses, Storms, Chabbots, Costal a Communities, Community participation, Disaster realitence, Biosater risk reductions, Neural- networks, Techno socials, Sea level	Disaters are ineritable for the coastal community due to their geographical closeness to the vast ocean. Sea-level rise, coastal floods, cyclones, hurricanes, tunamis, and even high tides affect coastal communities across the globe. It leads to substantial economic loss and loss of huran lines and properties, affecting the coastal communities livelihood and substantials. Other the warning time and the preparation line to take action are relatively short. The community needs to be prepared to move to a ader location in this short duration. The wind address the disaster is and distantial methods that need to be adopted by the coastal communities in india to reduce the impact of natural disasters and dimate change risk they are subceptible. We project an A Mauscholto to provide accuse and up to chain imminution adout the gainteemportal wrying disaster scenarios and the vulnerability and resilience notexs. The Ab acid chalbot will enhance the user experience and user safety by providing accurate information about disaster alerts through their smartphones. © 2023 ACM.	10.1145/3571306.3571437	https://www.scopus.com/inward/record.uri?eid=2- 220- 83/48734998.doi=10.1145%270571306.3571437& partneri0=40&md5=d0256z194040871125f72163 18413fb
G. Anmella, Sanabra, M., Primé-Tous, M., Segú, X., Cavero, M., Morilla, I., Ruiz, V., Grande, I., Mast, A., Martín- Villalba, I., Caballo, A., Esteva, J. P., Rodríguez- Rey, A., Piazza, F., Valdesöro, F. J., Rodríguez- Torrella, C., Espinosa, M., Sorroche, C., Virgili, G., Solanes, A., Radua, J., Also, M. A., Sant, E.,	Vickybot, a chatbot for Antabot for Antabot for Apressive symptoms and work-related burnout in primary care aprimary care aprimary primary care aprimary care primary care aprimary development, feasibility, and potential effectivenes studies	J Med Internet Res	2023					BACKGROND: A significant proportion of people attending Primary Care (PC) have anxiety-depressive symptoms and work- related burnout compounded by a lask of resources to meet their needs. The COVD-19 Andemic has exactivated this problem and digital cols have been proposed as a solution. DBECTIVE: We present the development, fassibility, and potential deflectiveness studies of Volyabed, a chaland and as sciencing, nonthoring, and reducing anxiety-depressive symptoms and work-related burnout in PC patients and healthcare workers. METHODS: Unex-emittened development, fassibility, and potential deflectiveness study: People consulting PC on healthcare workers. METHODS: Unex-emittened development, strategies were adopted. In reliability, 132-bits, and healthcare workers with mental health problem were offered to use Volyabet for memory. Endocre 2000, 2	10.2196/43293	
F. Antaki, Touma, S., Milad, D., El- Khoury, J., Duval, R.	Evaluating the Performance of ChatGPT in Ophthalmology: An Analysis of its Successes and Shortcomings		2023		(Antaki F.; Touma S.; Milad D.; El- Khoury J.; Duval gmail.com m) Depart ment of Ophthal Depart mology, Universi té de Montré al, Montre al, Canada		artificial intelligence, clinical decision making, general practice, human, intraocular education, multiple choice education, multiple choice education, multiple choice esta, neuroophilamiology, recall, simulation	We tested the accuracy of ChaTGT, a large language model (LLM), in the ophthalmology question-answering space using two popular multiple chick equation banks used for the high-stack Chybhianic Knowledge Assessment Program (IXGP) exam. The testing sets were of easy-to-moderate difficulty and were diversified, including reall, interpretation, practical and clinical decision-making projects. ChicRT ² achieved 55:89: and 27.27. scarcurs in the two 200-equation simulated exams. Its performance varied across subspecialities, with the best results in general medicine and the worst in neuro-ophthalmology and ophthalmic pathology and intraoadar turns. These results are encluding that largest that specializing LLMs through domain- specific pretraining may be necessary to improve their performance in ophthalmic subspecialities.	10.1101/2023.01.22.23284882	http://www.embase.com/seard/risults?ubsticio =wewcordiki_cu22543955&from-eoport, http://dx.doi.org/10.1101/2023.01.22.23284882
R. M. Baghmolaei, Ahmadi, A.	TET: Text emotion transfer	KNOWLEDGE- BASED SYSTEMS	2023	262			Natural language generation, Text style transfer, Emotion recognition, Transfer learning, Masked language modeling, Transformers, AWARE INFLUENCE MAXIM/ZATION, SENTIMENT, IDENTIFICATION, OPINION, MODEL	Test style transfer aims at transforming the style of a piece of test while keeping its primary context. The style of the test is usually defined as a particular writing tome in different categories, such as formality, potteress, settiment, and potitical Jant. Recently, most of the work in the area has been devoted to the problem of settiment transfer, which tries to transfer an optimisand test rule a gostitive or registre presenties. It has a postications in mattering, political news, chattabas, writing togst, and many others. On the other hand, emotions as the basic forms of sentiments have brought many attentions to different tasks, including image style transfer but they are not well personal in test byte ransfer yes. This article presents a test emotion transfer model that transforms the style of a text to each of the predefined langer', Tarr', toy', and 'sidensis' emotions. Releving on masked lengage modeling and transfer langer the proposed model can perform efficiently in limited amounts of emotion-annotated data. Moreover, the model shows promising experimental results against other existing modes considering style transfer accuracy, context preservation, and fluency in the ISEAR and TEC emotion corpora. (c) 2022 Elsevier B.V. All rights relevand.	10.1016/j.knosys.2022.110236	
Z. A. Baizal, Ikhsan, N., Karo, I. M. K., Darmawan, R. K., Hartanto, R. D.	Movie recommender chatbot based on Dialogflow	International Journal of Electrical and Computer Engineering	2023	13	3	936-947	Chathot, Conversitional recommender system, Dialogflow, Movie recommendation, Recommender system	Currently, the online movie streaming busines is growing rapidly, such as Herlin, Diuney, Amazon Prime Video, HBQ, and Apple TV. The recommender system helps: cultomers in getting information about movies that are in accordance with their winher. Meanwhile, the development of messaging platform technology has made it easier for many people to communicate instantly. Utiliting a messaging platform to build ar ecommenden system form works, provides special benefits because people often access the messaging platform to build ar ecommenden system form works, provides special benefits because people often access the messaging platform and the time. In the indonesian language, there are many along terms that the system must receptive. In this study, we build a chattom on a messaging platform which users can interact with the system in natural language (in indonesian language) and get recommendations. We use rule-based and maximum likelihood as a method in natural language processing (NLP), and contert-based filtering for the recommendation process. The recommender system. The interaction is based on a shattor which is built cut growing that will form a conversational recommender system. The interaction is and user astification to evaluate the system performance. The results obtained from the user study indicate that the NP approach provides a politive experience for users. That disting a provides provide access a accuracy value of 83%. G 2023 Institute of Advance Engineering and Science. All rights reserved.	10.11592/jpce.v1311.pp936-947	http://www.scopac.com/inward/record.un?eld=2- 2-0 8514398221840e1011551%Zifjece.v131Lpe936 92782partent0=0-428md5=807244779faea88a7b97a 8b3309cc55c
H. Barbe, Müller, J. L., Siegel, B., Fromberger, P.	An Open Source Virtual Reality Training Framework for the Criminal Justice System	Criminal Justice and Behavior	2023	50	2	294-303	chatbot, criminal justice system, forensic conversation training, forensic psychiatry, open source, virtual reality training, virtual standardized patient	we developed an open-source training framework to practice conversation skills in a controlled and immersive influe trailing (NR) emristment. Virtual characters with different biographics were developed with which a conversation using natural language is possible. The virtual activators integrate a disk grant agreement system (ChatGring) to provide different biographical meconition toolist. At the framework allows (or interchangeable context) they are the different provide application system integration toolist. At the framework allows (or interchangeable context) they are the different provide application costs to apply within the critical justice system. The VI frameworks code is available under a open-source losses in this antickan overview of the framework framework allows are used as an outlook on possible search application. Statements about user acceptance and values concerned to make a reference that have first to be gathered through a concrete application costs. O 2022 International Association for Correctional and Forensic Psychology.	10.1177/00938548221124128	https://www.scopus.com/inward/record.uti?eid=2- 25-/ 95138273578.doi=10.117782.000385482211241 288partnerD=408.md5=64a63b/3e1e17ab5f4bdf3 030ede22de
V. S. Barletta, Caivano, D., Colizzi, L., Dimauro, G., Piattini, M.	Clinical-chatbot AHP evaluation based on "quality in use" of ISO/IEC 25010	Int J Med Inform	2023	170		104951	Humans, "Software, "Health Facilities, Communication, Technology, Ahp, Clinical pathway, Iso/fec 25010, Medical-chattod usulity, competing financial interests or personal relationships that could have appeared, to influence the work reported in this paper.	BACKBOLND: Conversational agents are currently a valid alternative to humans in first-level interviews with users who need information, verv in edipt, about services or products. In application domains such a health care, this technology can become pervasive only if the perceived "quality in use" is appropriate. How to measure chatbot quality is an open question. The international standing GDNEC 2501D propriates are of characteristics (effectiveness, efficiency, satisfaction, freedom form and context coverage) to be considered when the "quality in use" of a software system has to be measured. BACK PROCEDURE: This study proproses and incla chatco comparison method based on quality. The proprose agencia his based on Avalytic Hierarchy Process methodology (AHP). FINDINGS: Our contribution is twold). First, we propose a set of measured for each dinarcentistic of SDRE 2501D according to three classes of functionality: providing information, providing apprecisity based on Avalytic Hierarchy Process methodology (AHP). FINDINGS: Our contribution is twoldo). First, we propose as est of measures for each dinarcentistic of SDRE 2501D according to three classes of functionality: providing information, provides and measures for each dinarcentistic of SDRE 2501D according to the elassies of functionality: providing information, provides when the AHP is used for the "guality-in-use" comparison. As a case taking bomgeneous the painvise weights when the AHP is used for the "guality-in-use" comparison. As a case taking, bomgeneous the painvise weights when the AHP is used for the "guality-in-use" comparison. As a case taking, bomgeneous the painvise weights when the AHP is used for the "guality-in-use" comparison. As a case taking, bomgeneous the painvise weights when the AHP is used for the "guality-in-use" comparison. As a case taking, bomgeneous the painvise set of medical distribution. The results show that the proposed approach provides an effective reference base for performing quality comparisons of medic	10.1016/j.ijmedinf.2022.104951	
G. Bercaru, Truică, C. O., Chiru, C. G., Rebedea, T.	Improving Intent Classification Using Unlabeled Data from Large Corpora	Mathematics	2023	11	3		chatbot, data augmentation, data projection, few-shot learning, intent classification, online clustering	Intert dissification is a certral component of a Natural Language Understanding [NLU] pipeline for conversational agents. The quality of such a component depends on the quality of the training data, however, for many conversational scenarios, the data might be scarce; in these scenarios, data sugmentation techniques are used. Having general data sugmentation methods that can generalize to many datasets is highly distable. The work presented in this papers is centered around two main components first, we epitore the influence of various feature vectors on the task of intert classification using RASA's text classification capabilities. The scenario and prof this work consists of a generic method for efficiently sime for examples similar to the ones that are already present in standard, natural language compont. The experimental results show that using our corpora sugmentation enables an increase in text classification accuracy in free-shot settings. Particularly, the gains in accuracy raise up to 15% when the number of labeled examples is very loce. The experimental results show that using our corpora sugmentation methods in enables an increase in text classification accuracy in free-shot settings. Particularly, the gains in accuracy raise up to 15% when the number of labeled examples is very loce. The operimental results show that using our corpora sugmentation methods language Processing (NLP) or NLU task in which labeled training data are scare or expensive to obtain. Lastly, we give some ineglish info future work, which aims at combining our proposed method with a semi-supervised learning approach. D 2023 by the authors.	10.3390/math11030769	http://www.scopus.com/inward/record.un?eid=2- 2-0- 8514738541&doi=10.3390%2/math11030769&pa ricemi==0&md5=37891566a823f737828.cd1b3bd9 bc6a
M. Binz, Schulz, E.	Using cognitive psychology to understand GPT- 3	Proc Natl Acad Sci U S A	2023	120	e	e221852 3120	Humans, "Decision Making, "Cognitive Psychology, Problem Solving, Learning, Reinforcement, Psychology, artificial intelligence, cognitive psychology, decision making, language models, reasoning	We study GPT-3, a recent large language model, using tools from cognitive psychology. More specifically, we assess GPT-3's decision-making, information search, deliberation, and causal reasoning abilities on a battery of canonical experiments from the Iterature. We find that much GPT-3's babards in syntessive: It solves signett-babard basks similarly or baber than human subjects. Subject that much GPT-3's babards in syntessive: It solves signett-babard basks inflavly or baber than human subjects. Subject make determing the sea bab find that small permutations to signet-baber datask can large GPT-3 wells startly, that it shows no signatures of directed exploration, and that it fails misenably in a causal reasoning task. Taken together, there exists enrich or understanding of Carruent large language models and peed peed solve for faure investigation using tools from cognitive psychology to study increasing's capable and opaque antificial agents.	10.1073/pnas.2218523120	

J. Biro, Linder, C., Neyens, D.	The Effects of a Health Care Chatbot's Complexity and Persona on User Trust, Perceived Usability, and Effectiveness: Mixed Methods Study	JMIR Hum Factors	2023	10		e41017	Ehr, adoption, artificial intelligence, chattote, effectiveness, electronic health record, health education, health education, health education, trust, usability, virtual agent, virtual assistant	BACGROUND: The rising adoption of telehealth provides new opportunities for more effective and equitable health care information mellum. The ballity of databacts to provide a conversional, personal, and comprehendible enseme for learning about health care information make them a promising tool for addressing health care inequity as health care trends continue toward web-based and errote processes. Although chaltoch table been studied in the health care domains for their efficacy for smoking essation, diet recommendation, and other assistive applications (fee studies have examined how specific design characteristics influence of efficience as of chaltoch is provides pleash information. DIRECTIVE: Con-Depictive was to investigate the influence of efficience as of chaltoch is providing health information. DIRECTIVE: Con-Depictive was to investigate the influence of efficience as on classical and the examples of a control measure of the second please is a databit care indicated technical as quaged and the presented qualifications of the dutabit's persona (e.g. doctor, nurse, or nursing student), Regression models were used to evaluate the impact of these variables on a durce measure: effectiveness, usability, and trust. A qualitative transcript review was also done to review how participants engaged with the chattot. BESUTS: Analysis of 27.3 persistions from the participants who reviewed technical language reponse were significantly more likely to trust. <i>Charl, 2-OAJ</i> Participants format therary (OIR LAS PSS C111-LAS O-FSS C111-LSS O-FSSS C111-LSS O-FSSS C111-LSS O-FSS C111-LSS O-FSS C111-L	10.2196/41017	
S. Biswas	ChatGPT and the Future of Medical Writing	Radiology	2023			223312			10.1148/radiol.223312	
P. Cahan, Treutlein, B.	A conversation with ChatGPT on the role of computational systems biology in stem cell research	Stem Cell Reports	2023	18	1	l 01. Feb	*Systems Biology, *Stem Cell Research, Computational Biology, Communication		10.1016/j.stemcr.2022.12.009	
R. A. Calvo, Peters, D., Moradbakhti , L. Cook, D., Rizos, G., Schuller, B., Kallis, C., Wong, E., Quint, J.	Assessing the Feasibility of reashilly of reashilly of a Conversational Agent for Asthma Support. Protocol for a Mixed Methods Observational Study	JMIR Res Protoc	2023	12		e42965	artificial intelligence, asthma, behavior change, chabtod, conversational agent, health, metaliti education, well-being, received conference united and has a joint working, agreement for a project between Imperial College Itealithcare NHS Trust And, AstraZenee NLK Ja has received grants from MRC, data, Starzenee NLK Ja has received grants from MRC, data, Starzenee NLK, and personal, fees for advisory beard participation or speaking fees from Glausofinithkine, Boehringer Ingelheim, AstraZeneea, and Bayer.	BACKGROUND: Despite efforts, the UK death rate from sathma is the highest III Europe, and GSX of people with asthma in the Lindek Ringdio don so reserve the professional care thay are writted to. Experts have recommended the use of digital innovations to help address the issues of poor ourcomes and lash of care access. An automated SMS text messaging-based conversational agent (i.e., thistor) created to provide access to asthma support in a forming format via an automated SMS text messaging-based conversational agent (i.e., thistor) created to provide access to asthma support in a forming format via an automated SMS text messaging-based conversational agent (i.e., thistor) created to provide access to action the hesishing via duality for a text-based conversational agent that processes a patient's text responses and bort sample voice recordings to calculate an estimate of their risk for an asthma eaccehabace and then offers followy in formation for hovering fisk and mutuality for a text-based conversational agent that processes a patient's text responses and borts sample voice recordings to calculate an estimate of their risk for an asthma cancerbased and then offers followy in formation for hovering fisk and mutuality for a text-based conversational agent that processes a patient's text responses and those with based who do not access professional services and those with particular settimations access the access to relative text with uses of the chart barresh for and areash text text on the uses of their condition. METHODS: We will result 300 adults through four charmesine target and thuse with method text and the vest text text through the provided with a screense, and those who meet inclusion criteria (adults disgnosofe with sthma and who use Whatshap) will be provided with a screense, and those who meet inclusion criteria (adults disgnosofe with sthma and who use through of their condition and through the sthma. astrone bardes and adults the text text. The astrone bardes and they devide that t	10.2136/42265	
L. Campillos- Llanos	MedLexSp - a medical lexicon for Spanish medical natural language processing	J Biomed Semantics	2023	14	1	1 2	Humans, "Natural Language Processing, "vox41:9, Language, Vocabulary, Controlled, Uniffed Medical Language System, Semantics, Medical Leukon, Natural Language Processing, Spanish, Word embeddings	BACKGROUND: Metcal lexicons enable the natural language processing (MPL) of health texts, Lexicons gather terms and concepts from thesiani and ontologies, and impiciatio data for prior 4-depech (PG) targing, lemontation or natural language generation. To date, there is no such type of resource for Spanish. CONSTRUCTION AND CONTENT: This article describes an unified metcal allexitor for Metcal Natural Language Processing in Spanish. Metcalcosing includes terms and infected word forms with PGS information and Unified Medical Language System(Formula: set text) (LIMLS) semantic types, groups and Concept Unique Identifies (UUI). To creat it, use well NP techniques and domain corpore (Lex) Metiling Metcal Language System(Formula: set text) (LIMLS) semantic types, groups and Concept Unique Identifies (UUI). To creat it, use well NP techniques and domain corpore (Lex) Metcalings (MedSH), the Stato Collected terms from the Dictionary of Metical Terms from the Spanish Royal Academy of Meticine, the Metal Subject Headings (MeSH), the Systematized Nomerachius of Metal Collections, the Online Metal InterNation (Init ModMM) and Opphalar. Terms related to COVID-19 were assembled by applying a similarity hased approach with word embeddings trained on a large corpus. Metalcsás inclusies (DI Sostelliness), and 29 SS all Interced forms (Inical acase. Metal Song Immovide), and 29 SS UNIS LOU. We report two use aces of Metal-Space J San Interd and Interial and InterNation (Inical acase. Metal-Space) for Pois Language and lemmatization compared to the defaul Space and Sanaa prihom libraries. CONLUSIONS: The lexicon is distributed in a definiter -spaniate with libra with Lexical All All All Anguage Terms, and the Space and Sanaa libraries; and complementary Lexical Record (IR) files. The embeddings and code to extract COVID-19 terms, and the Space and Sanaa lemmatizers erriched with medical terms are provided in a public repository.	10.1186/s13326-022-00281-5	
S. Cavalieri, Vener, C., LeBilanc, M., Lopez-Perez, L., Fico, G., Resteghini, C., Monzari, D., Marton, G., Moreira- Soares, M., Filippidou, D. E., Almeida, K., Almeida, A., Bilbao, A., Mehanna, H., Singer, S., Thomas, S., Lacerenza, L., Merantalli, F., Frijessi, A., Martinelli, F., Irigessi, A.,	A multicenter randomizet traits for quality of life evaluation by non-invasive untelligent tools during post- curative treatment follow up for head and neck cancer: Clinical study protocol	Front Oncol	2023	13		1048593	BIQAQD, QQJ, andreid, head and eack cancer, metalth, survivoritig, unohtrusive, this survivoritig, unohtrusive, this budy. Dir Senghyek by DDTSOFT, Greece. S5 discloses and faisal, outlies of his study. FM, is employed by MultiMed Engineers, Italy, LLI discloses the following conflicts, of interest: research funds donated directly to the study. FM, is employed by MultiMed Engineers. Treasers institute for olineast: research funds donated directly to the mentational, Tisak, Etelistic, Astranence, BMS, Bohringer Ingelheim, Calgene, International, Tisak, Etelistic, Deoffmann J, Broche, Ital, ISA, Deoffmann J, Broche, Ital, ISA, Deoffmann J, Broche, Ital, ISA, Deoffmann J, Broche, Ital, ISA, Perspecific, Medgace, Merc3-Serong, MSD, Novarki, occasional fees for participation as a speaker at conference/congresses, or as ascientific consultant for	Patents surviving head and next cancer (INC) suffer from high physical, psychological, and socioexecomic burders. A Achieving cancer-free survival with an optimal quality of life (Qu) is the immary paid for HVC patter management. So, maintaining life/ong surveillance is critical. An ambition goal avoid be to carry this out through the solvanced avalasis of environmental, emotional, and behavioral data underburgely collected from mole divects. The list of his clinical trial is to reduce, with no- imasive tools (i.e., patients' mole) devices), the proportion of HVC survivors (i.e., having completed their curative treatment from a month tool Devand's quark completion (i.e., quark complete their curative treatment from a month tool DEOTC QL-QL-QD develocities and the survival complete trial. The primary endpoint is a clinical prevant globah beth'releted DEOTC QL-QL-QD develocities and trial area of services and pain paint chiral area (curative treatment follow-up, he target sample site is 420 patients. Patients will be randomized to be followed up using the IDAQLA platform or per standard dirical particits. The IDAQLA platform includes are of services tal allow patients monotring and empowerment check have main tools: a mobile seplication installed on participants' smartphones, that includes a chabot for e-coaching, and the Point of Care debabard, to let the image large strengt data. In that man, participants' time locations (m-140) uill not. Bigbliny criteria include completing curative treatments for non-metastatic HVC and the use of an Android- bade smartphone. The careful strengt survival partice rescents the BADQL platform, hoose in the corrol are clinical trials gov, identifier (NCIOS 515570).	10.3389/forc.2023.1048593	
B. A. Chagas, Pagano, A. S., Prates, R. C., Ferreguetti, K., Vaz, H. Reis, Z. S. N., Ribeiro, A. L. P., Pedroso, T. M., Beleigoli, A., Oliveira, C. R. A., Marcolino, M. S.	Evaluating user experience with a chatbot designed as a public health response to the Covid-19 pandemic in Brazit: a mixed- methods study	JMR Hum Factors	2023					BACKBROUND: The potential of databatis for screening and monitoring COVID-19 was environmed since the very outbreaks of the divese. Outboth: an hind pickeminative purchase and structurely information, provend healthy scotal barbor and support the providen of healthcere screenices stelly and at cable. In this screenic of this for-resenting post-pandemic inspart, it is circularly important to evaluate user expressions with this visue of this for-resenting post-pandemic inspart, and analysis of usability with real users and on an exploration of attracely scalar participant ream and used as a component within the workflow of a local public healthcare energish and attractions (The COVID-19 symptom text) and and a screening of COVID-19 symptom severity and providing evidence-based information to the population. The COVID-2020 to lanuary 2021, we considered a mice and evaluation (screening of COVID-19 symptom severity and providing evidence-based information to the population. From October 2020 to lanuary 2021, we considered a mice and evaluation (screening of LeA). The lange that the bot guided by the interviewer. RESULTS: Usability assessment with 63 users revealed were good scores for chattor usefulness (4.3.7), likelihood of being recommended (4.4.8), assed or scitacion (4.3.8), thereis with 15 volumeters provided in nighter into strength and shortcoming in our bot. Carometer storp to was and problems reported by users were analyzed in terms of recurrent themes, while identifies approxide and providen in storp and education to user diversel evaluation of the education evaluation through informative content. We found is approxide and problems reported by users were analyzed in terms of recurrent themes, whi identifies population (4.3.8), metrics with 15 volumeters education to user strung informative cortext. We found is theme as accounting for what people liked most about our dividuated and and that advectore and the scalar to advector through anotemic through the scalar advector and the databot a	10.2196/43135	
S. Chari, Acharya, P., Gruen, D. M., Zhang, O., Eyigoz, E. K., Ghalwash, M., Seneviratne, O., Saiz, F. S., Meyer, P., Chakraborty, P., McGuinness, D. L.	Informing clinical assessment by contextualizing post-hoc explanations of risk prediction models in type-2 diabetes	Artificial Intelligence in Medicine	2023	137			article, artificial intelligence, case report, chronic kidney falleure, cinical article, clinical assessment, comorbiolity, data source, dabete en emittus, study, humm, language medical expert, no insulin dependent diabetes melitus, physician, pipeline, practice guideline, prediction, risk assessment	Medical experts may use Artificial intelligence (AI) systems with greater trust If these are supported by 'contextual explanation' that let the practitioner connect system inferences to their context of use. Nowever, their importance in improving model usage and understanding bases to be enviewed by studied. Hence, we consider a controlisticity risk predicts reasonic and focus on contexts regarding the patients' clinical state. A predictions about their risk of complications, and agorithmic explanations supporting the prediction. We sogion we releand information to such dimensions can be extracted from Medical guidelines supporting the prediction. We sogion we releand information to such dimensions can be extracted from Medical guidelines subsective. The prediction of the prediction is and mensions can be extracted from Medical guidelines state of the-art Large Language Modeli. (LIM) to present contexts around risk prediction model informers: and excluse their constraints. The information of the subsective states of the dimension by building and end-ber end prediction including the information of the subsective states and the states of the dimension of the dintere parating adjustical parts. The showed dimension	10.1016/j.artmed 2023.102498	http://www.embase.com/search/results?aubaction =viewrecord&id=2022003/11&from=sport, http://dx.doi.org/10.1016/j.artmed.2023.102498

J. Chatterjee, Dethlefs, N.	This new conversational AI model can be your friend, philosopher, and guide and even your worst	Patterns (N Y)	2023	4	. 1	100676		We explore the recently released ChatGPT model, one of the most powerful conversational AI models that has ever been developed. This opinion provides a perspective on its strengths and weaknesses and a call to action for the AI community (including academic researchers and industry) to work together on preventing potential misue of such powerful AI models in our everyday lives.	10.1016/j.patter.2022.100676	
T. J. Chen	enemy ChatGPT and other artificial intelligence applications speed up scientific writing	J Chin Med Assoc	2023						10.1097/jcma.00000000000000000	
X. L. Chen, Cheng, G. R. Y., Zou, D., Zhong, B. C., Xie, H. R.	Artificial Intelligent Robots for Precision Education: A Topic Modeling- Based Bibliometric Analysis	EDUCATIONAL TECHNOLOGY & SOCIETY	2023	26	1	1 171-186	Artificial intelligence robots, Topic modeling, Bibliometric analysis, Precision education, Research topics, Future of human-centered artificial intelligence, COMMUNICATION, KNOWLEDGE, THINKING, AI	As a huma-friendly system, the artificial intelligence (A) roboti is one of the critical applications in promoting precision education. Anogola the call for humarity-oriented applications in education, Al robot support deprecision education has developed into an active field, with increasing literature available. This study aimed to comprehensively analyse directions taken in the part is this reach field to interpret a roadmap for future work. By adopting structural top (modeling, the Mann- Kendal Internat text, and keywood analysis, we investigated the research topics and their dynamics in the field based on literature collected from Web Griene and Stoppart databases up to 2021. Results showed that A robots and chathens had been widely used in different subject areas (e.g., enty education, TSTM education, medical, runsing, and healthcare education, and language education) for promoting obliobarities the calcitorian state forming, distance learning, and and entry Rowever, a limited practice in developing true human-centered AI (HCA)-supported deviational robots is available. To advance HCAI in education and its application in educational robots (areas and advance HCAI) in education and the application in calcitorian and the precision education, we signetized invidue learners. HCAI in education and its application in educational robots (for precision education), and the signet and the advance text and the signet and the advance and providing sufficient technical support for instructors during robot implementation.	10.30191/FTS 202301_26(1).0013	
Y. Chen, Jensen, S., Albert, L. J., Gupta, S., Lee, T.	Artificial Intelligence (AI) Student Assistants in the Classroom: Designing Chatbots to Support Student Success	Information Systems Frontiers	2023	25	. 1	1 161-182	Chatbots, Conversational agents, Higher education, Inclusive learning, Ethical technology, Customer-servece, Empirical studies, Ethical concerns, High educations, Studient success, Facchery, Work productivity, Studients	In higher education, low teacher-student ratios can make it difficult for students to receive immediate and interactive help. Obathots, increasing used in avrians scenarios such as outcomer service, word productivity, and healthcare, mighte box every of helping instructors better meets student needs. However, few empirical studies in the field of information Systems (S) have investigated pelagoistic) abstrot of fractions in higher disculators of deves stuff discossitive proteintial challenges and drawhosts, in this neerach, we address this gap in the 5 literature by exploring the opportunities, challenges, efficare, and ethkoit concens, of using obathots are pelagoistical both of fifterature by pelagoing the opportunities, challenges, efficare, and ethkoit concens, of using obathots are used as the student attitudes is regarding the potential benefits and challenges of using chalatosis as intelling student assistance. Use finance means the team of the student students in the student of proteins to head students and bathots as intelling student assistance. Use finance means the team of the student teaming needs which we then used to design and resources. Intervin, we provide the realistic to locations possible proteins benefits and and to design and resources. Intervin, we provide the realistic obstrable students. Results of this second study suggest chalatos to use engaging and responsive conversational learning tools for teaching basic concepts and for providing educational resources. Intervin, we provide the realistic of both studeer and focus spossible provides are existed implications of using chalatosts to support inclusive learning. © 2022, The Author(s), under exclusive learne to Springer Science-Business Media, LLC, part of Springer Nature.	10.1007/s10796-022-10391-4	https://www.scops.com/inward/record.uu?ded-z 20.45313182792&doi=10.1007%2fs10796-022- 10291- 10291- 10291- 103331b668
H. Chin, Lima, G., Shin, M., Zhunis, A., Cha, C., Choi, J., Cha, C., Choi, J., Cha, M.	User-Chathot Conversations During the COVID-19 Pandemic: Study Based on Topic Modeling and Sentiment Analysis	J Med Internet Res	2023	25		e40922	Humans, United State/spidemiology, *COVID- 13/epidemiology/prevention & control/spix-hology, Pandemics, SAR5-CoV-2, Sentiment Analysis, *Social Media, Communicable Distribution, Santon, Media, Communicable Media, Communicable Media, Communicable Media, Communicable Media, Media, Social Agent, Media, Communicable Media, Media, Social Agent, Media, Med	BACKBROUND: Chabots have become a promising tool to support public health initiatives. Despite their potential, Ittle research has assuming how individual interacted with chabots during the COVD-19 pandemic. Understanding user-chabot interactions is crucial for developing services that can respond to people's needs during a global health energency. BIECTIVE: This study examines for the COVD-19 pandemic-related topics online users discussed with a commorcially available social chabots and compared the sentiment expressed by users from 5 suburably different countries. METHODS: We analyzed 19,722 conversation streamers related to COVD-19 pandemic libe fund States the fund Katingkom, Canada, Malayaia, and the Philippine) between 2020 and 2021, from Simsim, one of the world's largest open-domain social chabots. We distincted that tograph provide participation and analyzed hear the fund Katingkom, Canada, Malayaia, and the Philippine) between 2020 and 2021, from Simsim, one of the world's largest open-domain social chabots. We distincted that tograph provide participation and analyzed hear the fund with a global chabot cover and the chabot participation of the world's largest open-domain social chabots. We distinct '10,050, and 'Phoege and life in the pandemic' (10.714). Our data indicated that people considered chabots as a sociar of information about the pandemic (10.714). Our data indicated that people considered chabots as a sociar of information and bout the pandemic' (10.714). Our data indicated that people considered chabots as a sociar of lindomic social based on the chabot tograph relation tograph positive sentiment. We also for accurate in difference, with negative world hear on charging algobal habit charging but heards algobal to the chards interactions on the particemic in the social social interactions free study in the social social social social interactions on the social social social social social social interactions to analysis of user-chabot interactions on a basplated on the stati	10.2196/40922	
D. Chrimes	Using Decision Trees as an Expert System for Clinical Decision Support for COVID-19	Interact J Med Res	2023	12		e42540	Covid-19, assessment tool, chatbot, clinical decision support, decision tree, digital health inco, framework, health informatic, health intervention, prototype	COVID-19 has impacted billions of people and health care systems globally. However, there is currently no publicly available chatbot for patients and care providers to determine the potential severity of a COVID-19 infection or the possible biological system response and comorbiditis that that constribute to the development of severe cases (COVID-19.17); high performance insetsignion assesses this lack of a COVID-19 case by-pace chatbot into consideration when building a decision tree with binary constraints and there as statisfied by again and body systems, viral meteoria, and any maintestations. After reviewant application and interaction with users. A total of 212 modes were established that were stratified from large to hash constituses application and interaction with users. A total of 212 modes were established that were stratified from large to hash constituses application and interaction with users. A total of 212 modes were established that were stratified from large to hash constituses application and interaction with users. A total of 212 modes were established that were stratified from large to hash constituses application and interaction with users. A total of 212 modes were established that were stratified from large to hash constituses and provide strates and the strates of the strates and the strates and the strates and a possible 63,360 scenarios, defining a method toward understanding the data needed to validate the decision tree and highlighting the constrates and the incorporoting comorbidities and manifestations strengthens the framework. Despite instations of a value clinical decision the for COVD-19 cases, this prototype application provides insight into the type of data required for effective decision support.	10.2196/42540	
J. Y. X. Chua, Choolani, M., Chee, C. Y. I., Chan, Y. H., Lalor, J. G., Chong, Y. S., Shorey, S.	Insights of Parents and Parents-To-Be in Using Chatbots to Improve Their Preconception, Pregnancy, and Postpartum Health: A Mixed Studies Review	J Midwifery Womens Health	2023				chattot, parent, podpartum, preconception, pregnancy, review	INTGOLOTION: Chatbots, which are also known as conversational or virtual agents, are digital programs that can interact with humans using vices, text, or animation. They have shown promise in providing preconsignion, pregnancy, and postpartum health. Chittopolis Seven electronic diabaloss: were services that form their incegoria data utility and practice data and an electronic diabaloss. The service have the miniphese of a providing preconsignion, pregnancy, and postpartum health. Chittopolis Seven electronic diabaloss: were services to be aged 31 genes of who have an and the services. The guality of includes in this review. The guality of includes that were and head tool practices of a precision of who had undergone interventions involving the use of any type of chatbot were included in this review. The guality of includes tabulas reviews and tabulas reviews and a seven service tabulas explosed studies and an elegation that the intervent. The guality of includes tabulas reviews and tabulas reviews and tabulas reviews and and and regione interventions involving the use of any type of chatbot were included in this review. The guality of includes tabulas reviews and and antimeter and the preconceptional and tabulas reviews and the service tabulas reviews and and antimeter and the preconcept callabalos were to thermatical tabulas reviews and tabul	10.1111/jmwh.13472	
C. H. Chuang, Lo, J. H., Wu, Y. K.	Integrating Chatbot and Augmented Reality Technology into Biology Learning during COVID-19	Electronics (Switzerland)	2023	12	: 1		ARCS (Attention Relevance Confidence and Satisfaction) model, augmented reality, chatbot, e-learning	The novel coronavirus (COVID-19) pandemic is rampant around the world, and teachers and students are unable to attend physical classes in the midits of a serious outbreak. This study aims to design a user-friendly, educational chatbot application interface that can be used as an after-school self-learning tool to students to ehnance their interst and comprehension and increase the effectiveness of their learning at home. The system adopts the Outbid platform as the core interface and increase the effectiveness of their learning at home. The system adopts the Outbid platform as the core interface and increase the effectiveness of their learning at home. The system adopts the Outbid platform as the core interface and increase the content is based on the biology subject of the first year of junce high school and is integrated into the onine teaching with augument enables (school and school and school and school and is integrated into the onine teaching with augument enable) school and school the system According to the ARC motivation model, whether the interface to any teaching to the system developed in the subject grant matters at the set structures. The results show that the AR-based childros year developed in this subje significant fitnees the indication is the ARC motivation model; therefore, the interface to use the system spreamed to result in a noticeable increase is student learning outcomes when using the system . According), this study pspream there we online learning tools reludents to a thome during the pandemic, and the system also provides references for the future development and modification of educational harbots. O 2023 by the authors.	10.3390/electronics12010222	http://www.scopus.com/inward/record.uri7eid=2- 2.20- 83459220268dol=10.3390%Zfelectronics1201022 Z8partner00=408md5=d6d14el84a095008edf6ba e11b52607
E. Collombon, Peets, D. A., Bolman, C. A. W., de Bruijn, G. J., Lechner, L.	Adding Mobile Elements to Online Physical Activity Interventions Adults Aged Over 50 Years: Prototype Development Study	JMIR Form Res	2023	7		e42394	development, etcalith, miteatith, dider adults, pryskal activity, just test, protokype, usability	BACGRQUND: Only a minority of adults aged over 50 years meet physical activity (PA) guidelines of the World Health Organization (WHO), eHealth interventions are proven effective tools to help his population intervention approach to be short term, among with the Active Pius and Hose interventions have been developed by our own research grave. To subtree bond tends in a cological momentary intervention [DM] program, and a StateOI were added signature to the processor and pilot testing of the tenterventions with added testing to the short tends in a cological momentary intervention [DM] program, and a StateOI were added signature to the processor and pilot testing of the tenterventions is developed to evolve the processor and pilot testing of the tent intervention section. Within a target population character and the processor and pilot testing of the tent interventions and adaptation procedures was followed with indivented the processor and pilot testing of the testing of the short testing of the testing testing testing of the testing of	10.2196/42394	
N. Curtis	To ChatGPT or not to ChatGPT? The Impact of Artificial Intelligence on Academic Publishing	Pediatr Infect Dis J	2023						10.1097/inf.000000000003852	

R. S. D'Amico, White, T. G., Shah, H. A., Langer, D. J.	I Asked a ChatGPT to Write an Editorial About How We Can Incorporate Chatbots Into Neurosurgical Research and Datiset Corp.	Neurosurgery	2023						10.1227/neu.000000000002414	
R. Dale	NLP startup funding in 2022	Natural Language Engineering	2023	29	1	162-176	Chatbots, Commercial applications, Fundings, Human language, Machine translations, Sentiment analysis, Virtual assistants	It's no secret that the commercial application of NJP technologies has exploded in recent years. From chathocs and virtual assistants to machine translation and entities of technologies are now lengitud in a value writery of applications across a range of industries. With the increasing demand for technologies that can process human language, investors have been expert to get a gives of the action. In this antick, we look at NJP startup funding worthe past year, it can listing applications and domains that have received investment. © The Author(s), 2023. Published by Cambridge University Press.	10.1017/51351324923000013	https://www.scopus.com/inward/record_uri?eid=2- s2.0- s51479576778.doi=10.1017%2/\$13513249230000 13&partnerID=40&md5=8/2debee841d4e908e3957 b079c2713d
K. Darda, Carre, M., Cross, E.	Value attributed to text-based archives generated by antificial intelligence	R Soc Open Sci	2023	10	2	220915	Al, archives, artificial intelligence, journalism, natural language generation, value	Openly available natural language generation (NLG) algorithms can generate human-like tests arons domains. Given their potential, etikical duallenge arise cuch as being used as a too fire misinformation. In a necessary to understate both you have tests are generated from an algorithmic point of view, and how they are evaluated by a general audience. In this study, our sim was to investigate how people react to tests generated algorithmically, wheth they are individually buffer from original/human generated tests, and the value people assign these tests. Using original tare-based archives, and test-based archives generated archives compared with A generated archives, and type 1 – 220 revealing to the poople react to test the test people energy of the provide a schwere A.B. generated archives, and the value people react to test the schwere A.B. generated and original trokes, participants singled low evalue to archives the registroid as A generated minimum and an archives contraction single of the schwere also influenced by their attitude toward A. These findings provide a richer understanding of how the emergent practice of automated text creation afters the practices of markets and writem, and have implications for how reader's attitudes toward A.I. Affect the use and value of A-based applications and creations.	10.1098/rses.220915	
A. De la Rosa- Gómez, Waldherr, K.	Editorial: Highlights in digital mental health 2021/22	Frontiers in Digital Health	2023	4			chatbot, COVID-19, depression, engagement, meta-analysis, older adults, social isolation, telemental health (TMH)		10.3389/fdgth.2022.1093375	https://www.scopus.com/inward/record.uri?eid=2- s2.0- 85147232835&doi=10.3389%2ffdgth.2022.109337 5&partnerID=40&md5=a22f6426023f2b21f934855f 3a6a3978
T. De Sarkar	Implementing robotics in library services	Library Hi Tech News	2023	40	1	08. Dez	Artificial intelligence, Chatbot, Humanoid robot, Image recognition, Machine learning, Telepresence robot	Purpose: The main purpose of this paper is to explore how robots are being used in the library to transform library services and what are the future possibilities of application of robots in histories. Design/hetrobody/spropach: Analysing various library websites and consulting literature relating to the use of robots in libraries. Design/hetrobody/spropach: Analysing various library extensions and consulting literature relating to the use of robots in libraries the scene memerated. Findings: With the practical scamples of libraries using different types of robots, this study ammarises diverse activities of antificial intelligence-mediated robots: managing the shelf, controlling circulation workflow, assisting in document relatival, transgring articles, acting as subject guides, strender greference queries, to circulation workflow, assisting in document relatival, transgring articles, acting as subject guides, strender greference queries, to circulation workflow, assisting in document were group. The benefits and challenges of using robots in the library and the future possibilities are also discussed. © 2022, fineraid Publishing limited.	10.1108/LHTN-11-2022-0123	https://www.scopu.com/invard/tecordun?eid=2 20 = 65145300758640i=11.0108%7111111-12022- 0123&partneriD=40&md5=71eece5a8776af907e98 05c1d3345db1
S. Demir, Oktem, S.	A benchmark dataset for Turkish data-to- text generation	Computer Speech and Language	2023	77			Biography domain, Crowdsourcing, Data-to-text generation, Dining venue domain, Neural Models, Turkish, Large dataset, Natural language processing systems, Recurrent neural networks, Benchmark datasets, High quality, Learne, Natural language generation, Neural modelling, Text generations, Turkishs	In the last decades, data-to-text (2071) systems that directly learn from data have gained a lot of attention in natural language generation. These yottems need data with high quality and large volume, but informatory owne natural languages suffer from the last of readity available generation datasets. This article describes our efforts to create a new Turkish dataset (Tr-D2T) that consists of meaning regressination and reference senterce gains without fine grained word alignments. We callies that the test of the sentences by convolucing that the sentence of the sentence of the sentence of the sentence bargeshes and diming venue decargitions, in order to motivate future Turkish D2T studies, we present dataled benchmarking results of different segmences to decargitions, in order to motivate future Turkish D2T studies, we present dataled benchmarking results of different segmences decargitions, in order to motivate future Turkish D2T studies, we present dataled benchmarking results of different segmences decargitions in software and lesions kinemed from the rotation of a sen Turkish D2T studies. We were than the studies to the sentence were the sentence bargeshese and sentences and lesions kinemed from the creation of a sen Turkish D2T different segmences to sentences and lesions kinemed from the creation of a sen Turkish D2T different segmences to sentences and lesions kinemed from the creation of a sen Turkish D2T different segmences to sentences usually that presents generation genformances of transformer and resurrent neural network models from meaning representations in this morphologically-rich language. © 2022 Elsevier ttd	10.1016/j.cd/2022.101433	http://www.scopus.com/inward/record.un?eid=2- i2-0 831348997&8doi=10.1016%2/j.cl.2022.101438& partnert0=0&md5=7b0b2d046389df4507c13e332 3700006
D. Dippold	"Can I have the scan on Tuesday?" User repair in interaction with a task-oriented chatbot and the question of communication skills for Al	Journal of Pragmatics	2023	204		21-32	Artificial intelligence, Chatbots, Conversational AJ, Human-computer interaction, Repair	Repair describes the process through which participants in conversation address problems in speaking, understanding, and hearing, in interactions with Al-driven chatbots, user repair addresses chatbots' lack of understanding or misunderstanding of the user's intert. This paper represents a user-centered description of user repair strategies in interactions with a task-oriented chatbot. It is based on the analysis of simulated user interactions with a databot facilitating health appointment bookings. The analysis shows that the repair strategies much users also around relevant reparation. This suggest that here says the which prompt the bot to correctly recognise intent and provide relevant response, whereas the lass frequently used sid-repair strategies (are relating the intent) are more successful an adhronic inference regions. This suggest that here used is interaction with conversational AI need to be made exploit to users as they lack familiarity with the context, limitations and patterning of interactions facilitated through AI. O 2022 The Author(s)	10.1016/j.pragma.2022.12.004	http://www.scopus.com/inward/record.uri?eid=2- \$2.0- \$3146723618.doi=10.1016%2fj.pragma.2022.12.0 048.partnertD=408.md5=818ff4409e0049022e0f73 bbf3a80008
C. Diwan, Srinivasa, S., Suri, G., Agarwal, S., Ram, P.	Al-based learning content generation and learning pathway augmentation to increase learner engagement	Computers and Education: Artificial Intelligence	2023	4			Automatic question generation, Curating Jearning generation, Educational generation, Educational content generation, language models, Learner engagement, Multiple choice question, Open educational resources	Beating learner engagement is a major challenge in online learning environments, which is even more intensified with learning space increasity built by containing resources. There multiple indegendents outcres, Narrahevent learning experience has been found to improve learner engagement by several researchers. Towards this net, we propose an A-based approach that generates auxiliary learning content called an arative fragments which are intenspresed in the learning pathways to create interactive learning pathway segments and relation quisites of formative assessments from learning resources in any format including open educational resources. The pipeline for the generation of the outside resources of a variable of segments and the section quisites of formative assessments from resources of variable responses of the section of the section of the section of the enterative regression of surrative fragments on the fly vehnource three and charging pathways just to the need for pretention of surrative fragments on the fly vehnource three and charging to the learning pathways. The proposed approach to domain agnostic which makes it easily adpatable to different domains. The NG model is evaluated ung BOUGE scores against accounting baselines. Automative fragments which agnostic fragments counting a process baselines. Automatical generated anariative fragments are evaluated by human evaluators. We obtained encouraging results in both cases. © 2022 The Authors	10.1016/j.caesi.2022.100110	https://www.scopac.com/inward/record.un?eid=2- s2-0 831439727084oi=10.1016%2fj.caeai.2022.10011 08partneri0=408md5=5f321ae8acc53f97ccth/cb10c cf86249
H. Donato, Escada, P., Villanueva, T.	The Transparency of Science with ChatGPT and the Emerging Artificial Intelligence Language Models: Where Should Medical Journals Stand?	Acta Med Port	2023				Artificial Intelligence, Authorship, Ethics, Publishing, Research, Science/ethics		10.20344/amp.19694	
G. Dosovitsky, Bunge, E.	Development of a chatbot for depression: adolescent perceptions and recommendation s	Child Adolesc Ment Health	2023	28	1	124-127	Adult, Humans, Adolescent, "Depression/therapy, Communication, Mental Disorders, Mental Health, Disorders, Mental Health, behavioral activation, conversational activation, conversational agent, depression, digital intervention	BACKROUND: Databots are a relatively new technology that has shown promising outcomes for mental health symptoms in adults; however, few studies have been done with adolescents or reported adolescent user experimens and recommendations for chubt development. METHOD: Twenty three participants ages 11-18 (Migge) = 14-36 (engaged in user testing of a chubto development to psychodicute adolescents on depression, teach behavioral activation, and change negative thoughts. Thematic analysis was conducted of participants' responses to user experiment questions, impression, and the econometations. RESULTS: Over half (56.5%) of the sample completed the full intervention and provided user experiment feedback online. The average MVS cover was 62.5(50 - 21.8), of 64.3% (n = 9) and they would use the totakin in the future Of all user experiment responses, 54.5% were positive. The most common impressions were related to symptom improvement (51.1%) and availability (52.8%) The most fragment recommendations were related to symptom improvement [61.1%] and availability (52.8%) The most fragment recommendations were related to symptom improvement [61.1%] and availability (52.8%) The most fragment recommendations were related to solve technical mode (see, page) with additional mental health area exceptiable to some addrescents, a population that tends to be relucant to engage with relativation improvement and is highly available. Addrescents highlighted some technical and stylistic problems that developers tool addrescents.	10.1111/camb.12627	
Drakshayini, Kumar, N., Mohan, S. T.	Evolution of Chatbots Using Artificial Intelligenceand Machine Learning	European Journal of Molecular and Clinical Medicine	2023	10	1	3127- 3134	algorithm, article, artificial intelligence, chatbot, human, human experiment, machine learning, natural language processing	Artificial Machine intelligence is a very complicated topic. It involves creating machines that are capable of simulating involvedge. This speer examines some of the black AI patterns and activities and the provides alternative theory of change in some of the popular and widely arcsgred populates of today. Based on basic AI (Artificial Intelligence) structuring and working for this. System-Charlos are maid (or charle tods). The pages whose that AI is see improving. The pages comes under a major Domain of AI. It also has a sub domain as machine learning, because machine learning algorithm is used in this paper. The soope of this page is to advort leages studies of the business wheatle purpose. Natural Language Processing, allowing users to communicate with leage Interactive gard using any analyzing input and to train interactive agent using appropriate Machine Learning methods so will be able to generate a response. There are numerous applications that are incorporating a stored in a database created by a human expert.		https://www.embase.com/sardr/result3?subaction =viewrecord&id=12022369750&from=export
D. Duong, Solomon, B. D.	Analysis of large- language model versus human performance for genetics questions	medRxiv	2023					Large-language models like DndGPT have recently received a great deal of attention. To assess DndGPT in the field of genetics, we compared its performance to human respondents in answering genetical questions (moving 13.365 responsed) that had been posted on social media platforms starting in 2021. Overall, ChatGPT did not perform significantly differently than human respondents, but did significantly better on memorization-type questions versus critical thinking questions, frequently provided different answers when asked questions multiple times, and provided plausible explanations for both correct and incorrect answers.	10.1101/2023.01.27.23285115	
E. Durall Gazulla, Martins, L., Fernández- Ferrer, M.	Designing learning technology collaboratively: Analysis of a chatbot co- design	Educ Inf Technol (Dordr)	2023	28	1	109-134	Action research, Chatbot, Collaborative design, Conversational interface, Learning technology, Technology, Technology-mhanced learning	Calibatoristic delign approaches hove heem increasingly adopted in the delign of learning technologies since they contribute to develop pedagogically inclusion and appropriate learning delign. Despite the opositive reception of calibatoria design of strategies in technology-eshanced learning. Little attention has been dedicated to analyzing the calibatoria esign of processes using a collaborative approach. In this paper, we disclose the calibatoria telegin of a chaltor for earl-regulated learning in higher education using an action research approach. We analyze the design process of EOUgula chaltor, which includes where exotence from questionnies and workshops with students and learners, as well as isometically design and be objects. Based on the qualitative analysis, we identify several challenges that are transveral to the co-design work, as well as seport learners and processes. We obligate the combined section and how they relate to decision-making processes. Using the control of the co-design work, as well as seport feorometic colorismustic and workshops uses. We oblige that the recommendations and how they relate to decision-making processes. Using the entity of the co-design work, as well as a seport democratic classion-making in technology design processes. We believe that the recommendations we present in this paper contribute to developing ingeneds. SUPPLICENTATIV MORMATION: The online version contains supplementary material available at 10.1007/s1083P-022-11162-w.	10.1007/s10639-022-11162-w	

K. K. Dysthe, Røssberg, J. I., Brandtzaeg, P. B., Skjuve, M., Haavet, O. R., Følstad, A., Klowning, A.	Analyzing User- Generated Web- Based Posts of Adolescents' Emotional, Behavioral, and Symptom Responses to Beliefs About Depression: Qualitative Thematic Analysis	J Med Internet Res	2023	25		e37289	Humans, Adolescent, "Depression/therapy, Encloss, "Nental Disorders, Adaptation, Psychological, medical intervention, medical intervention, education, health literacy, preventive psychiatry	BACKROUND: Depression is common during adolescence. Enly intervention can prevent it from developing into more progressive mential disorders. Combining information technology and clinical psychoeducation is a gromating way to intervente an antier stage. Network, data-divente meach on the cognitive response to healt information targeting adolescents with symptome of depression is lacking. QBECTIVE: This study aimed to fills. This index page page mongal as new indexplaying of office information technology, such as chattoch, index and a simulation technology and clinical psychoeducation is a distributed of the second study aimed to fills. This index and the second study are distributed to the second study and the second study and the second study and the data set consists of 1870 depression-related questions posted by adolescents on a public web based information sections. Metad of the posts contains descriptions of events the lad to depression. On a simple of 100 posts, we conducted a qualitative thematic analysis based on cognitive behavioral theory investigating behavioral, emotional, and symptom responses to beliefs associated with depression. RESULTS results were or garantee information extendious by responses to beliefs associated with adjustive and particle data section approximation section and particle. The second stage personsolution beliefs about effective were garantee information and conductive data section and and particle as a consequence of imparte dataly function with the cause in a chardwords (4). Filling to a tata social interaction appeared to be associated with an egative performance and monoton the technical and states the performation expronson. We conservative and imparte dataly function are not entras, actively obtaining social support reduces symptoms and uside thangets. To there performs performs, endowed the functional states of the performance providing a terative diagnosis depite the risk of stigmating; and providing initial symptom reliable providing a teristive diag	10.2196/37289	
H. Else	Abstracts written by ChatGPT fool scientists	Nature	2023	613	7944	423	*Machine Learning/standards, *Writing/standards, *Research Personnel, Authorship/standards, *Research Report/standards, Machine learning, Mathematics and computing, Publishing		10.1038/d41586-023-00056-7	
G. A. Entenberg, Mizrahi, S., Walker, H., Aghakhani, S., Mostovoy, K., Carre, N., Marshall, Z., Dosovitsky, G., Benfica, D., Rousseau, A., Lin, G., Bunge, E. L.	Al-based chatbot micro- intervention for parents: Meaningful engagement, learning, and efficacy	Front Psychiatry	2023	14		1080770	Al, artificial intelligence, chathor, efficary, intervention, learning, parenting, commercial or financial relationships that could be construed as a potential, conflict of interest.	INTRODUCTON: Mental health issues have been on the rise among children and addrecents, and digital parenting programs have shown promising outcomes. However, there is limited research on the potential efficacy of utiling obtaints to promote parental adils. This study aimed to understand whether parents learn from a parenting chatbot mice intervention, to assess the overall efficacy of utiling obtained by the explorement with the chatbot. METHODS: A sample of 370 parents with at least one child between 71 users of where resulted. A randomised control trial vas contextler. Participants, including parential busyness, assumptions about parenting, and qualitative engagement with the chatbot. METHODS: A sample of 370 parents with at least one child between 72 layers of where resulted. A randomised result for parents when the experimental group accessed a 15-min intervention that taight how to utilize positive attention and praise to promote positive behaviors in their children, while excorting group emission and the strain group access moved in the expected in discutto, there were on significant differences by condition in the pariang howelderge reported by parents, precised and acytostand the parents grade with the chatbot and suggests that, in greans, beind, led'quided, digital interventions can promote learning in parents. It is possible that a higher dose of intervention may be needed to obtain a therapeutic charge in parents. Further research implications on chatbots for parenting skills, were discussed.	10.3389/fpsyc.2023.1080770	
G. A. Entenberg, Dosovitsky, G., Aghakhani, S., Mostovoy, K., Carre, N., Marshall, Z., Benfica, D., Mitrahi, S., Testerman, A., Rousseau, A., Lin, G., Bunge, E. L.	User experience with a parenting chatbot micro intervention	Frontiers in Digital Health	2023	4			artificial intelligence, chatory, conversational agent, intervention, parenting, user experience (UX)	Background: The use of charbot to address mental health conditions have become increasingly popular in recent years. However, fee studies aimed to tech parenting Kults Mough Attabuts, and there are no reports on parental user experience. Alm: This study aimed to assess the user experience of a parenting charbot micro intervention to tech how to praise children in a Spanish-passing outry. Methods: A study of a parenting charbot micro intervention to tech how to praise children in andomized controlled trial study. Completion rates, engagement, satisfaction, net promoter stores, and acceptability were analysed. Results: 66.3 of the participants completed the intervention. Participants exchanged an average of 49.3 message (20 = 15.3), provided an average satisfaction score of 4.3 (50 – 73), and reported that they would recommend the about to other parents (inpress assisting and average of 4.3 (50 – 73)). A set opported that they would recommend the about to other parents (inpress, and reported an high beyond acceptability level was high classed and are 4.6 (50 – 73), conductability (50 – 7.5), Conductability. Completion in the intervention, at high rate, stragged with the charbot, were satisfied to a stragge stragger of the intervention at high rate, stragged with the charbot, were satisfied, and were assisted in the efficiency of parenting chatbot interventions is needed. 2023 Entenberg. Doion/tsky, Aghashani, Mostowy, Carre, Marshall, Berlica, Mizrahi, Testerman, Rousseau, Lin and Burge.	10.3389/fdgth.2022 989022	http://www.scopus.com/inward/record.un?eld-2- 12-0 851470198788460-10.3389%2f4gth.2022.989022 88partentD-40&md5=f659a1d175f9e455a31d113 b560c466
G. A. Entenberg, Mizrahi, S., Walker, H., Aghakhani, S., Mostovoy, K., Carre, N., Marshall, Z., Dosovitsky, G., Benfica, D., Rousseau, A., Lin, G. C., Bunge, F. L.	Al-based chatbot micro- intervention for parents: Meaningful engagement, learning, and efficacy	FRONTIERS IN PSYCHIATRY	2023	14			chabbo, parenting, antificial intelligence, learning, efficacy, intervention, AA, DETRINALIZEN EIENAVOR PROBLEMS, DENRIFINE BERAVORS, ORLIDREN, METADARINS, CHALENGES, STRATEGES, EDUCATION, CARE	istroductionMerial health issues have been on the rise among children and adolescents, and tightal parenting programs have shown promising outcomes. However, there is limited research on the potential directly of utiling chalotots to promote parental abilit. This study aimed to understand whether parents learn from a parenting chalotot niceo intervention, to assess the overall efficacy of the intervention, and to explore the user chalacteristics of the participant, including parental busyness, assumptions about parenting, and qualitative engagement with the chaloto. Methods: A ample of 270 parents with a least one officiant, while the control group remained on availing list. Reseatcheding and the participant engaged with a bird. A traditional control frain law conducted. Participants in their dividers, while the control group remained on a valuing list. Reseatchedina and praise to promote positive behaviors in their dividers, while the control group remained on a valuing list. Reseatchedinas and praise to promote positive behaviors in their dividers, while the control group remained on a value list. Reseatchedus also were the participant engaged with a bird. A tradi- tione are no significant differences by condition in the praising knowledge torgotted by parents, particle results provided insight to understand how parents engaged with the chalot and suggests that, in general, keef, self-guided, digital interventions can promote learning in parents. It is possible that a higher dose of intervention may the meeds to obtain a therapeutic change in parents. Further research implications on chabots for parenting skills are discussed.	10.3389/fppyt.2023.1080770	
K. Epalte, Tomsone, S., Větra, A., Běrziņa, G.	Patient experience using digital therapy "Vigo" for stroke patient recovery: a qualitative descriptive study	Disabil Rehabil Assist Technol	2023	18	2	: 175-184	Humans, "Stroke Rehabilitation, Artificial Intelligence, "Stroke, Qualitative Research, Patient Outcome Assessment, Stroke, digital therapeut, qualitative study, rehabilitation	BACKGROUND: The digital assistant "Vigo" is a comparison extender antificial intelligence-based application that serves as a digital assistant to a stole patient and his family. Whit is conversional chabd and gamification elements it counsels, educates, and trains the stroke patient and his family. Whit is conversional chabd and gamification elements it counsels, educates, and trains the stroke patient and his galaxima. "Vigo" audity from a patient by preservice. WEHTOGS: Twelve patients texted the application at their home environment. Three semi-structured interviews were conducted with each participant to obtain information on the usability of the application. Deductive thematic analyses were used to analyse transitions." Participants sepressed their opinions on music, pictures, video and audio files, chat options, jourd, text, name of application as transparet, understandable, and handy. The overall eleign of the application was rated as good. Participants even shult application tablet technologies in their home environment. Listers of digital assistant "Vigo" acknowledged its ability to support, yee exactional information and increase participation in therapeutic activities informations for rehabilitation tervities and the application in support, yee educational information, and increase garchigation in therapeutic activities informations for heabilitation and support, yee educational information, and increase participation in therapeutic activities informations for heabilitation and support, yee educational information, and increase participation in therapeutic activities informations of the application and inducati's goads, functional meets and abilities.	10.1080/17483107.2020.1839794	
H. Fan, Gao, W., Han, B.	Are AI chatbots a cure-all? The relative effectiveness of chatbot ambidexterity in crafting hedonic and cognitive smart experiences	Journal of Business Research	2023	156			Chatbot ambidexterity. Dual process models, Polynomial regression, Response surface analysis, Smart experiences	Whether AI chalabots improve smart experiences and generate revenue is an under-researched poly vinestigating and comparing the effects of the full range of chalabot subdictentity on smart experiences. Using empirical data from 1,026 cutomers, the results indicate that chalstot ambidictentity is not accured. The provide the state of the stat	10.1016/j.jbusres.2022.113526	https://www.scopus.com/inward/record.un?edd-2- 2-0- 85145611911&8ob-10.1016%2f}.jbuores.2022.1135 Z6&patrient=>-0&md5=b1e664c540fed2c26bf1af1 d1bff05e
J. Fan, Sun, T., Liu, J., Zhao, T., Zhang, B., Chen, Z., Glorioso, M., Hack, E.	How well can an Al chatbot infer personality? Examining psychometric properties of machine-inferred personality scores	J Appl Psychol	2023					The present study explores the plausibility of measuring periodicily indirectly through an antificial intelligence (AI) chalds. This distribution mission totalial lattice from user's free text errors explores collected during an online conversion (free/ever and table). This distribution through the source through the source source conversion (and table) and the source through the source source and the source through the source source and the source source and the source source and table and the source source and tables. This distribution is a source source and the source source and the source source and the source source source and the source source source source and the source source source and the source source and the periodity is and the source source there is a source of the source and the source and the source source the source and the source and the source source and the source and the source and the source source the source and the source and the source source and the source an	10.1037/spi0001082	

F. Ferré, Laurent, R., Furelau, P., Doumard, E., Ferrier, A., Bosch, L., Basch, L., Basch, L., C., Menut, R., Kurrek, M., Geeraerts, T., Minville, V.	Perioperative Risk Assessment of Patients Using Digital Score Completed Before the Preamsthetic Consultation: Prospective Observational Study	JMR Perioper Med	2023	6		e39044	chatóc (digital heath, machine learning, mobile phone, perioperative risk, preanesthetic consultation	BACKEROLIND: The rangeing CDVD-19 pandemic has highlighted the potential of digital health colutions to adapt the organization of one is a crisic sound. CDRECTINE: Our aim was to device the relationship between the MARIS krow, device from self-reported data collected by a chabote before the presententies to device the relationship between the MARIS krow, device from self-reported data collected by a chabote before the presententies consultation, and the occurrence of postportation complications. METHODS: This was a single-center prospective beown cloan study that included 40.0 patients: The 16 items composing the MARISK score were selected using the Delphi method. An algorithm was used to structly patients with low (green), intermediate (compaci), and high local (sink: The primary on polant concerned postportative complications. Archite learning model was trained to predict the MARISK score using a larger data set of 1323 patients classified as green or red to relassify individuals classified as ongrees, and high local classified as green or red to relassify individuals classified as ongrees, and high local classified as green or red to relassify individuals classified as ongrees, and high local classified as green or red to relassify individuals classified as interpares and the matter structure and the site (FS) tab. Structure, and the patient predictions (Gdd re riso 395 (Cl 3.2.8.175, B-rOI), and predicted postporenties complications with high structure with patient predictive structure (FS) tab. With the specificity (FS) memory icating galaxie and system usability icals method in local structure is a constructure of 400 (IOR RE > 553) out of 30, respectively. CONLINDON: The Marking Gligal and production relates were the IGN 2.0.9 (D) out of 1.0 and 900 (IOR RE > 553) out of 30, respectively. CONLINDON: The Marking Gligal as productive is score stating data mathemic ensuring actegorization could be used to objectively relef patients with low risk to teleconsultation.	10.2196/39044	
N. Fijačko, Gosak, L., Štiglic, G., Picard, C. T., John Douma, M.	Can ChatGPT Pass the Life Support Exams without Entering the American Heart Association Course?	Resuscitation	2023			109733	ChatGPT, Large language model, advance cardiavascular life support, artificial intelligence, basic life support, educational assessment		10.1016/j.resuscitation.2023.109732	
A. T. Gabrielson, Odisho, A. Y., Canes, D.	Harnessing Generative Al to Improve Efficiency Among Urologists: Welcome ChatGPT	J Urol	2023			101097j u000000 0000003 383	administrative efficiency, artificial intelligence		10.1097/ju.000000000003383	
Y. Gao, Dilgach, D., Miller, T., Caskey, J., Sharma, B., Churpek, M. M., Afshar, M.	DR.BENCH: Diagnostic Reasoning Benchmark for Clinical Natural Language Processing	J Biomed Inform	2023	138		104286	Clinical diagnostic decision support, Clinical diagnostic reasoning, Clinical natural language processing pencessing, competing pencessing, competing pencessing, competing relationships that could have appeared, to influence the work reported in this paper.	The meaningful use of electronic health records (ERR) continues to progress in the digital era with clinical decision support systems agemented by strificial intelligence. A priority in improving provider experiments is to overcome information overball and reduce the cognitive burden so fewer medical errors and cognitive blases are introduced during patient care. One major type of medical errors is diagnosit: error due to systematic or predicable errors in plagment that rely on heartistics. The potential for clinical natural language processing (ARCI) to model diagnosit: creasoning in humans with forward reasoning from data to diagnosis and opticality processing (ARCI) to model diagnosit: creasoning in humans with ofward reasoning from data to diagnosis and opticality processing diagnosis reasoning in humans with ofward reasoning from data to diagnosis and opticality processing diagnosis: reasoning in humans with forward reasoning from data to diagnosis and decision of the diagnosis reasoning in humans with ofward reasoning from diagnosis: encoded with clinical diagnosis: reasoning and diagnosis generation. DR BENCI is the first clinical sub of tabks decised of DR. BENCI is to advance the science in club to support downtream applications in computerized diagnosis: decision support and improve the differency and accuracy of healthcare provides during patient displaystic reasoning on medical knowledge, the model denois not BENCI is built down and adpation optical and optical decision support downtream applications in computerized diagnostic decision support denois trade optical provides on DR BENCI is based on the new available of DR. BENCI: We there DB. BENCI is a applicitly available clinable resisted optical provides on the advance and evaluate the data evaluate the data optical decision supports.	10.1016/j.jb.2023.104286	
A. N. Gesselman, Kaufman, E. M., Marcotte, A. S., Reynolds, T. A., Garcia, J. R.	Engagement with Emerging Forms of Sextech: Demographic Correlates from a National Sample of Adults in the United States	J Sex Res	2023	60	:	2 177-189	Male, Humans, Adult, United States, Fernale, "Sexual Behavior, "Sexual and Gender Minorities, Erotica, Internet, Demography	Social technology is seve-exology, and increasingly offers novel domains for sexual experiences. In the current study, we investigated demographic correctes of expanses of the server	10.1080/00224499.2021.2007521	
P. Gibson	Enacting Empowerment Through an Automated Teaching Event: A Posthuman and Political Perspective	Postdigital Science and Education	2023	5	1	1 77-99	Affirmative ethics, Algorithm, Automate teaching, Automation, Posthumanism	This paper problematics the way that the power of the automated teacher is understood by arguing that the question of power is not a humanism on concerned with human/technology oppositions, but renter, it can be understood as a posthuman question, concerned with automated teaching as an ethically regulated process. Research has largely ignored the political aspect of the cover shifts of power from humans to technology. This paper reports on a chatbot that was developed to co- teach with a human teacher at a UK University. Thori the Teacherbot imbues posthuman critical theory which helps to understand automated teaching in an eretication, atther than a transmissive, way, Catographie draw you ang autilitative analysis of the data to map the political experiences of the students as they collectively author a narrative within FIOR's till as a norwait whitemical juncture, where Flores remises the story. That Flord's gentral catacity as a co-unitor is encountered. Through such intra-relational tacking moments, student expressions of adequate understanding sround the restrictive and empowering forces mergins tagges that, when the political teatruture with thin a nationate teacher are achioveled; it, it is possible to understand authority as something other than a one-directional form of control, but rather a relational encounter with freedom. B 2022, The Author(s), under exclusive licence to Springer Nature Switzerland AG.	10.1007/442438-022-00346-9	https://www.scopu.com/inward/tecord.un?ed=2. 20.95141606512.doi=10.1007%2/s42438-022- 00346- SygartherID-308md5-dd5689b3a660462/a19d77 6722/56beb
A. Gilson, Safranek, C. W., Huang, T., Socrates, V., Chi, L., Taylor, R. A., Chartash, D.	How Does CatafOT Perform on the United States Medical Licensing Examination? The implications of Large Language Models for Medical Education and Knowledge Assessment	JMIR Med Educ	2023	9		e45312	ChatGPT, Gpt, MeriCA, Nijo, ertificial intelligence, chatoci, conversational agent, education technology, generative pre-trained transformer, medical education, natural language processing	BACKBONUS: Chal Generative Pre-trained Transformer (DatGPT) is s 173-billion-parameter natural language processing model that can generate conversation-style reports to user intro. UBLICTUN: This Study ament to evaluate the performance of DatGPT on questions within the scope of the United States Medical Licensing Examination Step 1 and Step 2 exam, as well as to analyze reports or user interpretability. NETHOOS: we used 2 sets of multiple-tochec questions to value to theorytic performance, each with questions perfaining to Step 1 and Step 2. The first set was derived from AMBOSS, a commonly used question bank for medical students, which also provides statistics on question difficulty and the performance on accounter to 2 other lange language models, CPT 3 and instructOPT. The test output of back DhalfOPT response was evaluated accoss 3 qualitative metrics: logical justification of the answer selected, presence of information internal to the questions, and presence of information external to the question. RSLINS: Of the 4data ask. AMBOSS Step, JMME-Free Step2, and NME-Free Step2, ChatGPT abshered extructor VB states. The storage to dech ChatGPT information storage storage states and the states of the States and the states of the States and the states of the States and GPT3 performed similarly to androm chance. The model demonstrated a significant decrease in performance as question and formation. The presence of information testema to the question was present in 50.5% of lasts at .t. Here all information to the question was present in 1005% of odapts of the NMME free-Step2 (DatGPT ashine and CPT) and was related CPT and was a relation of information metamic answers in allow to correct answers on the NMME free-Step2 (PL-001) and NMME-Tree-Step2 (PL-001) statis the AMBOS Step3 (Lasts), we show that the model adjuetion maximum data gauge processing modes on the take of malcard question maximum data gauge approaches and student. Additionate, we blight Charlos answers indideves the equality astate data	10.2196/45312	
C. S. Gonzalez- Gonzalez, Munoz-Cruz, V., Toledo- Delgado, P. A., Nacimiento- Garcia, E.	Personalized Gamification for Learning: A Reactive Chatbot Architecture Proposal	SENSORS	2023	23	1	1	open learner modeling, gamilication, chatbots, personalization, game learning analytics, user modeling, EDUCATION, SYSTEMS, STYLES, GAMES	A key factor for successfully implementing gamified learning platforms in making students interact with the system from multiple digital platforms. Learning platforms that try to accomplia all their objective by concentrating all the interactions from uses with them are less effective than initially believed. Conversational bots are ideal solutions for cross-platform user interaction. In this page, an open student player model is presented. The model includes the user of machine learning techniques for online adaptation. Then, an architecture for the solution is described, including the open model. Finally, the chabtor design is advected. The chabtor advecture architecture are to the solution is described, multiplication tables playfully.	10.3390/s23010545	
C. González- Mora, Barros, C., Garrigós, I., Zubcoff, J., Lloret, E., Mazón, J. N.	Improving open data web API documentation through interactivity and natural language generation	Computer Standards and Interfaces	2023	83			Natural language generation, Natural language processing, DeprAH7 documentation, Web API, Application programming interfaces (API), open bata, Reusability, Applications web, Data-source, Interfaces, URA and Antonia and MEB application ry applications interface. Web applications, Natural language processing systems	Weddy Adoption of Information Technologies has resulted in the continuous growing of open data available on the Web. Netwers, the lask of subble inclusions to understand open data Sources happens its resubblits. Dreve way to exercise this limitation is by means of Web Adoptication Programming interfaces (APA) with proper documentation, nowadary being the oxisting very undimentary. Nard to follow, and sometimes incomplete or even naccurate in most cases. In order to improve the documentation of Web APB, that access open data, this paper proposes a novel approach to automatically generate interactive Web API documentation. Job machine and our restable. This process starts by analying the documentation of an API to obtain important information, automatically constructing Natural Language generation techniques. They, the documentation is made papying Natural Language Processing (UL), and specifically, language generation techniques. They, the documentation is used and comprehension of the Web APB is inforting, collecting way access to spen data provided by Web APs. Therefore, the approach is presented through a case study and an experiment with users, both showing the benefits of our approach. © 2022 Elsevier & V.	10.1016/j.csi.2022.103657	https://www.scopa.com/inward/record.un?eid=2- 2-0- 85130267738.doi=10.1016%2fj.cii.2022.1036578. partner01=-08.md5=5286c2e5792062c2feadbcee75 78e9df
C. Gonzalez- Mora, Barros, C., Garríg, I., Zubcoff, J., Lloret, E., Maz, J. N.	Improving open data web API documentation through interactivity and natural language generation	COMPUTER STANDARDS & INTERFACES	2023	83			Web API, OpenAPI documentation, Natural Ianguage processing, Natural Ianguage generation	Wedely adoption of Information Technologies has resulted in the continuous growing of open data available on the Web. However, the lack of suitable mechanisms to understand open data sources humpers its resubility. One way to oercoren their limitation is by manse of Web Application Programming interfaces (APR) with proper documentation, rowadary being the existing very understand, hard to follow, and sometimes incomplete or even naccurate in most case. In order to improve the documentation of Web APR that access open data, this paper proposes a novel approach to automatically generate interactive Web API documentation. Doth machine and our restable. This proper strates that paining the documentation of an API to obtain important information, automatically constructing Natural Language generation techniques: They face documentation is made palying Natural language Processing (UK), and specifically, language generation techniques: They face documentation is used and comprehension of the Web APR is infortable, or dering easy access to open data provided by Web APs. Therefore, the approach is presented through a case study and an experiment with users, both showing the benefits of our approach.	10.1016/j.cs/2022.103657	

B. Gordijn, Have, H. T.	ChatGPT: evolution or	Med Health Care Philos	2023						10.1007/s11019-023-10136-0	
F. Graham	revolution? Daily briefing: ChatGPT listed as author on research papers	Nature	2023						10.1038/d41586-023-00188-w	
F. Graham	Daily briefing: Science urgently needs a plan for ChatGPT	Nature	2023						10.1038/d41586-023-00360-2	
F. Graham	Daily briefing: The science underlying the Turkey–Syria	Nature	2023				earthquake, note, race, Syrian Arab Republic, Turkey (republic)	The region sits between two major faults and struggles with poor building standards in some areas. Plus, underdog technologies are gaining ground in the quantum-computing race and what ChatGPT and generative AI mean for science. [Figure not available: see fulltext].	10.1038/d41586-023-00373-x	https://www.embase.com/search/results?subaction =viewrecord&id=12021375530&from=export, http://dx.doi.org/10.1038/d41586-023-00373-x
B. Guerrero- Bocanegra	Analysis of the Social Dimension in the Interactions in the UNED Hosting Forums and Its Implications for the Design of a Chatbot for Educational Guidance	Revista Electronica Educare	2023	27	1	1	chatbot, distance education, induction virtual communities, social dimension	Objective To analyze the presence of the social dimension in the interactions of the hooting formums for ever students at the URED and to determine its implications in the design of a shathoff to initial educational guidance. Methodology, The presence of the social dimension in the interactions that took place in the virtual induction forms during the 203/2020 academic year was analyzed and coefficied, specifically in the technical support forum, the orientation forum, and the metantion forum in the ord the degrees offered by the institution. The sample consisted of 1,461 messages sent through 12 virtual forums by a total of 570 people, to which the tacegivariation proposed by lowice et al. (1999) was applied deductively. Analysis of results. The data were processed with the help of computer-assisted qualitative data analysis software. Conclusion, it would be advisable for the initial educational guidance thabito to show fafect by preprised genotions, to be interactive by explicitly referring to the messages sent by the users, and to be cohesive by including greetings, encouragement, and vocatives. © 2023 Authors. All rights reserved.	10.15359/ree.27-1.15844	https://www.scopts.com/inward/record un?ided-2 21-0334645940660-iD-0335974/rece7 1.158448.partner/D=408.md5=5-c3didbi071815e9f8 d10368cdd3b2c0
S. A. Hadri, Bouramoul, A.	Towards a deep learning based contextual chat bot for preventing depression in young children with autistic spectrum disorder	Smart Health	2023	27			article, artificial intelligence, autism, chatboth, child, child psychiatry, deep learning, depression, female, human, machine learning, male, prevention	Aution is a neurodevelopmental disorder of biological origin that occurs entry in children. It includes a range of cognitive features of very very vehicle intensity. Autions in children have unique characteristics, choling difficulties in soli interactions and communication with others, but also limited or repetitive behaviours, activities and interests. The management of a submit disorder remains a difficulti and tradications that requires the used dimonsitive behaviours, activities and interests. The management of a submit disorder remains a difficulti anticipation of an intelligent system for the assistance and accompaniement of aution. Children have proposed is abated on artificial intelligent system for the assistance and accompaniement of aution. Children have provide is abated on artificial intelligent system for the assistance and accompaniement of aution. Children have provide is abated on artificial intelligent system for the assistance and activity. The antice that the children have provide the abated on a disconse the situations by another that the situation of the interpretion of the situation of the interpretion by the situation and and have proved being in the relation of the situation of the situations by another the situation of the situation of the interpretion before the situation of the situations by another the situation of the situation of the interpretion before the situation of the situations by another the situation of the situation of the interpretion before the situations by another the situation of the interpretion and the situation of papelicability of this approach. The results obtained are very promising and open the way for the improvement and expansion of this system.	10.1016/j.smhl2022.100371	https://www.embase.com/search/resulfszubatcho verweverodfikie/2020533554/fore-seport, http://dx.doi.org/10.1016/j.smhi.2022.100371
J. E. Hallsworth, Udaondo, Z., Pedrós-Alió, C., Höfer, J., Benison, K. C., Uoyd, K. G., Cordero, R. J. B., de Campos, C. B. L, Yakimov, M. M., Amils, R.	Scientific novelty beyond the experiment	Microb Biotechnol	2023					Practical experiment drive important scientific discoveries in biology, but theory-based research studies also contribute novel- sometimes paraling and change findings. Here, we appraise the relies of theory-based generation of the experimen- dominated web biology research areas of microbial growth and survival, cell physiology, host-pathogen interactions, and competitive or synthesis interactions. Additional examples relies to analyses of generates leaves the and the top of the physiology. The standard stress of the standard stress of the standard stress devices and stress discover and the stress of the stress	10.1111/J.751-7915.14222	
M. Hayakawa, Watanabe, O., Shiga, K., Fujishita, M., Yamaki, C., Ogo, Y., Takahashi, T., Ikeguchi, Y., Takayama, T.	Exploring types of conversational agents for resolving cancer patients' questions and concerns: Analysis of 100 telephone consultations on breast cancer	Patient Educ Couns	2023	106		75-84	Humans, Female, "Referral and Consultation, "Breast Neoplasms, Telephone, Communication, Breast neoplasms, Chathots, Conversational agent, Medical informatics, Patient narvigation, competing financial interests or personal relationships that could have appeared, to influence the work reported in this paper.	OBJECTIVE: This study was conducted to investigate the types of conversational agents (CA) that can help address questions and converse ["Ust topics" [LTD]). METHODS: We analyzed audio recordings of helphone consultations with 100 breast cancer patients and their families. [1] We detailed the content and mode of paression of 115 about breast cancer raise that the statistical patients and their families. [1] We detailed the content and mode of aprecision of LTB should breast cancer raise data the SLT soft the IDO calles were the same "traintent-related guestions occurred in 10 of the 100 and the SLT soft the IDO calles were the same "traintent-related guestions occurred in 10 of the 100 are more fassible than chatbots that alware each question directly in cancer consultations. Moreover, it is afficult to an one questions directly because paraging associates to all 11 sin a here cancer consultations. Moreover, it is afficult to an one questions directly because paraging associates to all 11 sin a here cancer consultations. Moreover, it is afficult to an one facilitation of the state of the state of the state cancer consultations. Moreover, it is afficult to an one face that the state paraging associates to all 11 sin a here cancer consultations. Moreover, it is afficult to an one face more pressing high-quality CIs focused on trainents is required. PRACITIC IMPLICATIONE: An increasing number of cancer patiest are seeing information to recolve their UTs. CAs can help supplement the limited human resources available if they are supplied with appropriate CIs.	10.1016/j.pec.2022.10.004	
K. F. Hew, Huang, W., Du, J., Jia, C.	Using chatbots to support student goal setting and social presence in fully online activities: learner engagement and perceptions	J Comput High Educ	2023	35	1	1 40-68	Datbot, Goal-setting, Higher education, Online learning, Social presence	Although fully online learning is now the hew normal 'in many parts of the world, its implementation is often based by challenges such as the lack of stadent self-regulation, and the sense of stadiation. In this paper, we explored the use of challenge online course were involved to complete a goal setting activity period to attending class is galavetting challenges. The sense of stadiation is the sense of stadiation is the sense of stadiation is the sense of stadiation in the space, we explored the use of indiation online course were involved to complete a goal setting activity period to attending class is galavetting challeno. The exhibit engaged participants with the questions developed tasked on the SMART (peorfic, messurable, achievable, realistic, and timely goal activity framework is study 2 rights as foreign stage articipants in a tild provide study and and 2, we evaluated participants' behavioral engagement by messuring their conversation records with the chalbos, as well as participants' perceptions of interacting using of use of the sense. It has a concering the anatopic of the chalbos the requestion of the study and the sense of sources with both chalbos with requestions of interacting with the chalbos. The enable of the sense disclass reserves with both chalbos with requestions of interacting with the chalbos. The enable of the sense disclass reserves and the sense of sources and the sense of use. We also provided suggestions for instructors to apply chalbos in teaching and learning.	10.1007/s12528-022-09338-x	
M. T. Ho, Le, N. T. B., Mantello, P., Ho, M. T., Ghotbi, N.	Understanding the acceptance of emotional artificial initelligence in Japanese healthcare sectional survey of clinic visitors' attitude	Technology in Society	2023	72			Al in Healthcare, Antificial intelligence (A), frontional AI (EA), Japan, Japanese elderly patients, Behavioral research, Deep learning, Engineering education, Health care, Hooptala, Learning systems, Japanese in healthcare antificial metaligence formal intelligence, Antificial intelligence, Antificial intelligence, Healthcare systems, Healthcare workers, Japanese elderly patient, Diagonois, elderly care, machine learning, mental health, software	Despte having one of the most advanced healthcare systems in the word, Japan is expected to experience a shortage of nearly half a million healthcare workers by 025 due to 1sr agady aging population. In reports, government advanced pharmonic plan to implement a wide range of A-driven healthcare solutions. These include care robots that assist the physically handicapped of electry, chattos that provide anonymous online mental health consultation, and dispositio shortware utilities marking the amily tell one of the most popular smart technologies to alignment the nation's already overstrained and undermanned healthcare systems is all titls como but merging mentional all technologies, i.e., deep learning spectres trained to each classify, and respont to human emotions. These technologies to alignment due allow of the systems trained to each classify, and respont to human emotions. These technologies are being sold on a commercial level not only to the public but also to intelligent muchines may seem like a logical step in a country well-known for its long-tanding affection toward robots, in the result of medical care. In order to gauge lagances acceptance of emotion-ansing technology, we analyze a datated of 24 strains to discuss and hopatis in a rybacial substan area in lagan using multiple learn regression. The results show that are of similarity: has positive correlations with attitudes toward emotions. Albabad splications in nytate datated of familiarity, has positive correlations with attitudes toward emotional Ababad splications in private setting (Brainianisty, Attitudeh-10-34, publica) and public terting (Brainian rybatic). Benot40, Interestings, concerns over violation of privacy and discrimination are non-significant correlates, which contradic the emerging literature on the visual the contextualize the infinging with insignification insplications in private setting (Brainianisty, Attitudeh-10-34, publica) and public terting (Brainian rybatic). Benot40, Interestings, concerns over violation of privacy an	10.1016/j.techuor.2022.102166	https://www.scopus.com/inward/record.un?htds2- 2:0- 8514349900840i=10.1016%2/j.techuoc.2022.1021 66&partner10-20.00b98803/88b1f691f39 47ef2efea5
A. Holzinger, Keiblinger, K., Holub, P., Zatloukal, K., Müller, H.	Al for life: Trends in artificial intelligence for biotechnology	N Biotechnol	2023	74		16-24	Artificial Intelligence, Biotechnology, Deep Learning, Digital Transformation, Machine Learning, of interests.	Due to popular successe (e.g., -ChalGPT) Artificial intelligence (h)) is on envyront-i lips today. When advances in h batechnology are combined with divence in Al supported and source batechnology and a source batechnology problems and contribute to important Surainability Development Gasti, Carrent examples include Food Security, Heith and Weil-beinc, Clast Nuez, Class Toray, Reponsible Comsumption and Pototichico. Climate Action, Life body Water, or protect, restore and pornote sustainability begonsible comsumptions in the life science today. Topic Single All and and and reverse land degatation and hat loborheyi loss. Al s ubiquitos in the life science today, Topic Include a wide range from machine learning and lig: Data analytics, knowledge discovery and data mining, biomedical antiologies, knowledge-based reasoning, natural language processing, decision support and reasoning under uncertainty, temportal and spatial respensation and informace, and methodological aspects of explainable AI (XAI) with applications of biotechnology, in this pre-Editorial paper, we provide an overview of open reason's house and Anhilenger for each of the topics addressed in this special issue. Potential authors can directly use this as a guideline for developing their paper.	10.1016/j.nbt.2023.02.001	
J. Hsu	Should schools ban Al chatbots?	NEW SCIENTIST	2023	246	3422	2 15-15				
T. C. Hsu, Huang, H. L., Hwang, G. J., Chen, M. S.	Effects of Incorporating an Expert Decision- making Mechanism into Chatbots on Students? Achievement, Enjoyment, and Anxiety	EDUCATIONAL TECHNOLOGY & SOCIETY	2023	26	1	1 218-231	Artificial Intelligence in Education, Expert knowledge, Decision tree, Onabot, Interactive learning system, ARTIFICIAL-INTELUCENCE, PRECISION EDUCATION, LEARNING ANALYTICS, AJ, SYSTEM, PERSPECTIVES, SKILLS, MAP	In traditional instruction, teachers generally delive the content of testbooks to students via lecture, making teaching activities lack vibrancy. Moreover, in such a one kommeng teaching mode, the teacher is usually unable to check on mischual students' learning status or to provide immediate feedback to resolve their learning problems. Chatboots provide an opportunity to address this problem. However, conventional chatboot generally serve as information providers (Le, providing relevant information by mutanting keywork in a conversion) rather than a decision-making daviors (Le, using a lowoledge-based chatbod to lotitatise informatistic particular students) and the student structures. A quasi-experiment was conducted to compare the differences in the performances and perceptions of students using the earpert decision-making based chatbod to hotitatistic information game transmission of students using the earpert decision-making based chatbod to bottottate information game transmission of students using the earpert decision making based chatbod to bottottate information davide (Catabod) in the activities of a georgative conce. Ore david S 31 students was the experimental group, using the Chatbod to. The other class of 35 students was the control group, using the C-chatbod. The results of the study based that the DMA-chatbod combine with expert decision-making knowledge significantly improved students' rearring achievement and learning enjoyment as well as reducing their learning anoiety, showing the value of the proposed approach.	10.30191/ETS.202301_26(1).0016	

J. Huang,	Using ChatGPT	J Diabetes Sci	2023			1,9E+16	artificial intelligence, chatbot,		10.1177/19322968231161095	
Yeung, A. M., Kerr, D., Klonoff, D. C.	to Predict the Future of Diabetes Technology	Technol					diabetes, diabetes technology, search			
S. Huh	Are ChatGPTs knowledge and interpretation ability comparable to those of medical students in Korea for taking a parasitology examination?: a descriptive study	J Educ Eval Health Prof	2023	20		1	Human, Educational Measurement methods, Kowniego, Republic of Korea, Students, Medical, Artificial Intelligence, Educational measurement, Medical Students, Republic of Korea, Evaluation for Iteath Professions sing 2005, He was not involved in the review, process. DOB, Herwise, no potential conflict of interest relevant to this article, was reported.	This study at med to compare the knowledge and interpretation ability of OnLGPT, a language model of antificial general energience, with topic of medical students in Kores by gloritoring a parasitology examination to both CAGPT and mediat students. The examination consisted of 73 items and was administered to CAGRPT on January 1, 2023. The examination were analyzed in terms of OnLGPT's overall performance score, its correct answer rate by the tume' knowledge level, and the acceptability of its explanations of the items. Knowledge items. How they, there was a relationship between ChaGPT's correct answer rate wis not related to the items' knowledge and interpretation ability for this parasitology examination were not yet comparable to those of medical students in Korea.	10.3352/jeehp.2023.20.1	
S. Huh	Issues in the 3rd year of the COVID-19 pandemic, including computer-based testing, study design, ChatGPT, journal metrics, and appreciation to reviewers	J Educ Eval Health Prof	2023	20		5	Humans, *covid-19, Pandemics, Benchmarking, SARS-Cov-2, Peer Review, Research		10.3352/jeehp.2023.20.5	
M. H. Hwang, Shin, J., Seo, H., Im, J. S., Cho, H., Lee, C. K.	Ensemble-NQG- T5: Ensemble Neural Question Generation Model Based on Text-to-Text Transfer Transformer	Applied Sciences (Switzerland)	2023	13	2		deep learning, ensemble algorithm, natural language processing, neural question generation	Deep learning chaltor reserves and development is regulating recently to offer outcomes in numerous industries personalized services. However, however, how not service a learning dataset for a deep dating data between the other to augment this the lead of neural operation (NGG) has coded, although it has restrictions on how operation can be expressed in different ways and has a finite capacity for question greatering has been been been been been been been bee	10.3390/app13020903	https://www.sopus.com/inward/record.un?eld=2- 2-0- 851466772884oi=10.3390%24pp13020903.8part ner0i=408md5=f17afb/6d7/bd90f9cbd0209a28f6c 55
I. Iancu, Iancu, B.	Interacting with chatbots later in life: A technology acceptance perspective in COVID-19 pandemic situation	Frontiers in Psychology	2023	13			behavioral intention, datatoti, midda, eged and aging adulti, perceived asso of use, perceived usfunes, technology acceptance model	encoductors. Within the technological development path, chattots are considered an important tool for economic and social entitles to become one efficient and to elevelop automore -restrict experiences that minimic human behavior. Albaugh artificant intelligence is increasingly used, there is a lack of empirical studies that ain to understand consumers' experience with databats. Moreover, in a contex characterized by constant population aging and an increased file-expectancy, the way apid adults perceive technology becomes of great interest. However, based on the digital divide (inequal access to technology, incovidege, and rescurs), and incre young adults (get between B all ad 34 years of all we considered to have greater affinity for technology incourse), and incre young adults (get between B all ad 34 years of all we considered to have greater affinity for technology, most of the research is dedicated to their perception. The present paper invery has been conducted. The age-range of the subjects is 40–78 years of al, a convenience sampling technique being used (N = 235). The timeframe of the subject modeling (IQ 536M) has been used to test the theoretical assumptions as it is a procedure used for complete conceptual models and bency resting. Results: The results how that while prevent developed the sub-science of the subject has a sub- subjective on minimal of the other science of the subject has a subjective normer. For themse, minimized as are linely to further two chattots; the head on the interest on the base of the site of the state science is the understand the use chattots; the head on the science and base to test the test of the science of the subject on the base and interction used and of the other science is in five or during. Contexist and age and the science are perceived base intertion. As studies on chattots and aging adults are flew and are manky investigating reactions in the hashbare domain, this research is one of the state science to the understand the way vhatbots in an domain-specific co	10.3389/fpag.2022.1111003	http://www.sopus.com/inward/record.uir/iede2- 2-0- 851471464748.doi:10.3389%2/floyg_2022.11100 383471470-0408md5-6650b58d2a22/19509d53b1 d05972aa0
J. Jasin, Ng, H. T., Atmosukarto J., Iyer, P., Osman, F., Wong, P. Y. K., Puz, C. Y., Cheow, W. S.	The implementation of chatbot- mediated immediacy for synchronous communication in an online chemistry course	Educ Inf Technol (Dordr)	2023			Jan 26	Chatbot Chemistry, Immediacy, Orline Classes, Scafolding, Synchronoia Communication, relevant to the content of this article.	Low student engigement and notitation in online classes are well-known itsues nany universities face, especially with distance disculation during the COVID-19 pandemic. The online environment makes it even having for stachers to concert with their students through traditional vehal and nonverbal behaviours, further decreasing engigement, Yet, addressing such problems with 2XF synchronous communication service face face face face face face face fa	10 1007/510639 023-11602-1	
Y. Jiang, Yang, X., Zheng, T.	Make chatbots more adaptive: Dual pathways linking human- like cues and tailored response to trust in interactions with chatbots	Computers in Human Behavior	2023	138			Ambiguity tolerance, Chatbot, Human-like cues, Taliored regionse, Task-technology fit, Trust, Al applications, Ambiguity tolerances, Chatbot, Human-like, Human- like cue, Research models, Social presence, Task technology fit	As one of the most popular Al applications, chatbots are creating new ways and value for businesses to interset with their customers, and their adoption and continued use will depend on user's truts. However, due to the non-transparent of Ar-failed technology and the moligy and applications to boundaries, it is difficult to determine which aspects enhances the adaptation of chatbots and how they interactively affect human truts. Based on the theory of task-technology (II, we developed a research model to investigate how to correstational cose of chatbots, human-like cuse and laider response, influence human truts toward duatots and to explore appropriate boundary conditions (individual characteristics and task characteristic) in interacting with charbots. Dise survey and two experiments user performed to test the research model, and the results indicated that (1) perceived task solving competence and social presence mediate the pathway from conversational cuses to human trus, which was validated in the context of e-commerca and educations (2) (1) when performing high-creative tasks, the human- like charbot human trus, which solving competence. Cu II minging and only contribute to the Al trus-reliated harbattere to all provide practical implications for the development of chatbots and their assignment to individuals and tasks. © 2022 Elsevier Lid Device Lid Device	10.1016/j.chb.2022.107485	http://www.scopus.com/inward/record.uri?eid=2- \$2.0- \$3392666838.doi=10.1016%2fj.chb.2022.107485 & partner/ID=40&md5=a434ea857b9fa7289c218abb 96193d3d
Y. Jiang, Yang, X. C., Zheng, T. Q.	Make chatbots more adaptive: Dual pathways linking human- like cues and tailored response to trust in interactions with chatbots	COMPUTERS IN HUMAN BEHAVIOR	2023	138			Chatbot, Trust, Human-like cues, Task-technology fit, Ambiguth Jolenace, Talored response, TASK-TECHNOLOGY IT, ARTIFICIAL-INTELLIGENCE, INTEGRATIVE MODEL, SOCIAL PRESENCE, INFORMATION, SYSTEMS, AMBIGUITY, UNCERTAINTY, PERCEPTIONS, PERSPECTIVE	As one of the most popular A papilication, challots are creating new ways and value for businesses to interact with their outcomers, and their adoption and continuous usive disequel on user's trust. However, due to the on-transparent of Ar- related technology and the ampliquity of application boundaries, it is difficult to determine which spects enhance the adaptation of challots and how they instructively affect humans trust. Based on the threary of task-technology (if, use developed) a research model to investigate how two conversionalitications of challots, human-like cues and talened responses, influence human trust storatic challots and to engine segregation boundaries, and scale thready characteristics characteristics) in interacting with chall-backs. One survey and two experiments were performed to test the research model, and the results indicated that (1) perceived task solving completers and social presence. and [1] when performing hyper-creater tasks, the insuma trust, which was validated in the context of a-commerce and education; [2] the select of user's ampliquity toterance moderates the effects of two conversational cases to adult advance trust is detarted linearching when perceived task solving completence. Our findings not only contribute to the AI trust- related linearure bud also provide practical implications for the development of chatbots and their assignment to individuals and tasks.	10.1016/j.chb.2022.107485	
R. Karra, Lasfar, A.	Impact of Data Quality on Question Answering System Performances	INTELLIGENT AUTOMATION AND SOFT COMPUTING	2023	35	1	335-349	DataOps, data quality, QA system, nip, context simplification, SIMPLIFICATION	In contrast with the research of new models, little attention has been paid to the impact of low or high-quality data feeding a dialogue system. The presents pare makes the first starting to fill this gap by steading or previous work on quantiza- answering (GA) potents by investigating the effect of misspelling on GA signals and how context changes can enhance the engrouse. Instant of uning large languages models trained on hange datasets, we propose a method that endersc the model's score by prodifying only the quality and structure of the data feed to the model. It is important to identify the features that modify the gap enformance because a link rare of worgs answers can make the extension to the response. Instant of fining she fill given the importance of quarters in use proposed context simplification exceeds 50%. There infining she fill given the importance of quarter link and context complexity contract as large dimensions of the GA system. In conclusion, the experimental results on quartion and context simplification exceeds 50%. There is a signal for GAM and gap and the quarter link and context simplification exceeds 50%. There is a nonclusion, the experimental results on qualition and context simplification exceeds 50%. There is a nonclusion, the experimental results on qualitors and context simplification exceeds 50%. There is a nonclusion, the experimental results on qualitors and context simplification exceeds 50%. There is a nonclusion, the experimental results on qualitors and context simplification exceeds 50%. There is a nonclusion with eQA system can significantly enhance his robustness and performance.	10.32604/issc.2023.026695	
V. Kaushal, Yadav, R.	Learning successful implementation of Chatbots in businesses from B2B customer experience perspective	Concurrency and Computation: Practice and Experience	2023	35	1		Chatbots, content analysis, customer experience, customization, integration, Natural language processing systems, Customisation, Exploratory studies, Research gaps, Service interfaces, Social interactions, Turn-around time, Two phase, Sales	Artificial intelligence empowered Chathobs are altering the nature of service interfaces which has further resulted in native expectations from Chathobs to understand customer's social interactions and response them within the numaround time. To dose this research gap, we conduct an exploratory study in two phases-industry's perspective and B2B customer's perspective and analyer results with the help of NVDU 20 plus and lecimaner. The findings reveals perceived risk with respect to Chatbos is high, complex pricing structure along with nonavailability of testing options makes the per purchase more complex. Moreover, interactive, seeds, customization first strategies. Therefore, or findings sugged Chatbos must per purchase more complex. And proverse interaction of the major effective first perceived in the strate provide more personalization, catability and maid bander editors the customer can be enclosed outsomer experience. Chatbos must offer a gelencem chathober databased where the customer can be enclosed customer experience. Chatbos must offer a gelencem chathober streament and tocus on delivering more enhanced customer experience. Chatbos must offer a gelencem chathober databased where the customer can be enclosed results enclosed and the enclosed results and so on to get transparency. Chatbos timentifies the customer can be enclosed results and so on to get transparency. Chatbos timentifies the class from differ stores the streament enclosed results and store performers. Database must offer a classing customer experience. Chatbos must offer a classing customer experience and customer experience. Chatbos must offer a classing c	10.1002/spc.7450	https://www.scopas.com/inward/record.un?ield=2- 20- 85141380012&doi=10.1002%2/cpc.74308partneri D=048md5=761d69145ee4ab08804e0548a7074d2 e

P. Kaywan, Ahmed, K., Ibaida, A., Miao, Y., Gu, B.	Early detection of depression using a conversational AI devis Antonia dinical trial	PLoS One	2023	18	8 :	2 e027974 3	Human, Mala, Adult, Addissont, Yong Adult, Madissont, Yong Adult, Million Charles, "Depression/Alganosis, "Depression/Alganosis, "Depression/Alganosis, Depression/Alganosis, Hallingence, Surveys and Questionnaires, Focus Groups	BACKBONID: Artificial intelligence (AI) has gained momentum is behavioural health inter-restations in recent years. However, a innited number of studies is see apply such methodologies in the enry detection of depression A large population needing products. Therefore, I is essential to develop a must correlating larger plant the set of the enry detection of depression A larger population needing products. Therefore, I is essential to develop a must correlating larger plant and the must be the any tage to avoid a potential crisis. DBIECTINES: This study aims to understand the lease/billy and efficacy of using AI- enabled chaltoo in the early detection of depression. METOODS: Vise co Dialgflows as a conversation interview guide, which contains 27 questions combrain (be textured interview guide) for the conversation interview guide, which contains 27 questions combrain (be textured interview guide) for the animol more gravity of a plant develop depression. SEICOSC 2000; 2	10.1371/journal.pone.0279743	
C. Kecht, Egger, A., Kratsch, W., Röglinger, M.	Quantifying chatbots' ability to learn business processes	Information Systems	2023	11:	8		Chatbots, Conformance checking, Natural language processing, Process mining, Data mining, Natural language process mining, Statural Businese Process, Business to usistomers, Language processing, Learn +, Natural languages, User input, Sales	Chatbot enable organizations in the business-to-customer domain to respond to repetitive request efficiently. Estant approximas in Nutral Language Processing (NEJ) already address the second requestioness of uncertaining user input and synthesing a response as closes as possible to a response a human interiorative would give. However, we argue that the organizational adoption of chatbots further depends on the uncertaining model: chatbots would give. However, we argue that the organizational adoption of chatbots further depends on the uncertaining model: chatbots would give. However, we argue that the organizational adoption of chatbots further depends on the uncertaining model: chatbots would give. However, we argue that the organizational adoption of harbots further depends on the uncertaining and the symptometry with models. We demonstrate our approach by training databots on a dataset of more than 500,000 customer service conversations from three comparison to Twitter and allow how our approach subports the quantification of a chatbot's customer service conversations that underling process and we show how to compare the chatbot's vescincid datase against a given morative grooses model. Our approach that seamiesity integrates with existing approaches to evaluate NIX-based chatbots mitigates the current hardles that practitioners face and, therefore, strives to foster the adoption of chatbots in practice. © 2023 Elsevier tid	10.1016/j.it.2023.102176	https://www.scopus.com/inward/record.un?ietid=2- 2-0- 8514890122758.doi-10.1016%7/j.ir.2023.1021768p 8141er01-040.md5=f842ec8824169b735516685s20 117036
D. Khurana, Koli, A., Khatter, K., Singh, S.	Natural language processing: state of the art, current trends and challenges	Multimed Tools Appl	2023	81	2 3	3 3713- 3744	NP Baplications, NLP evaluation metrics, Natural language processing, Natural language understanding. Supervision of Dr. Kinan Khatter and Dr. Sukhded Strogh, sub-Calcel and Ch. C. Surgh, sub-Calcel and Ch. C. Strogh, Sub-Calcel and Ch. C. Strogh, Sub-Calcel and Ch. C. Surgh, Sub-Calcel and Ch. C. Sub-Strogh, Sub-Calcel and Ch. C. Sub-Strogh, Sub-Calcel and Ch. C. Sub-Strogh, Sub-Strogh, Sub-Strogh, Sub- strokers, Pt. Ld. and deputed at the, Manav Rachna International University. The draft is ato available on arrivorg, at https://arxiv.org/abs/1708.05	Natural language processing (NP) has recently galand much attention for representing and analysing human language computationally. It has spread to application is varous fields with a machine translation, camalisgand extertion, information extraction, summarization, metacla, and question answering etc. In this paper, we first distinguish four phases by discussing different levels of NP and components of Natural Language demention flowed by preventing the history and evolution of NLP. We then discuss in detail the state of the art pre-enting the various applications of NLP, current trends, and challenges. Finally, we present a discussion on some available datasets, models, and evaluation metrics in NLP.	10.1007/511042-022-13428-4	
D. Kim, Jang, J. T., Kim, C., Kim, H. W., Hong, E., Ban, S., Shin, M., Lee, H., Lee, H. D., Mo, H. S., Woo, J., Kim, D. H.	Read Disturbances in Cross-Point Phase-Change Memory Arrays - Part I: Physical Modeling with Phase-Change Dynamics	IEEE Transactions on Electron Devices	2023	70) :	2 514-520	Phase-change memory (PCM), read disturbance, selector, storage dass memory (SCM), Dynamics, Phase change materials, Chabtos, Cross point, Phase-change memory, Storage dass memory, Storage dass memory, Phase change memory	Phase-thange memory (PCM) connected to an additional selector has been implemented in cross-point arrays for storage class memory splications in the one-PCM and one-selector (LSM) configuration, the stored should be turned on frat to rad the resistance state of the FCM. This requires a large read voltage (trived), and a high read current from the PCM is instantly produced, which cause read distubances. To understand the underlying mechanism of the disturbance, and environment of the second state of the PCM is instantly. The store of the state of the second state of the PCM is instantly produced, which cause read distubances. To understand the underlying mechanism (state) of the disturbance, and everytables ad physics based vertices and morphous phases of the PCM cause be identified indirectly. Based on the measured distat, when the pristion amproprises taste of the PCM is programmed by a higher STG corrent (ESU). TVH decresses only the exhaust one crystallization, leading to a low-resistance state. However, VTH subsequently begins to increase with respect toSET, which results in a U-shaped VTH-SETCurve. It is informed that members are preserved showed by the high results in a U-shaped VTH-SETCurve. It is informed to the results allow and are in good agreement with the experimental data and reveals that the temperature generates showe 500. This is del physical important role in triggering the unwanted phase transition of the GeSDF layer during the read operation. D 1963-2012 IEEE.	10.1109/TED.2022.3231818	http://www.sopus.com/inward/record un?id=2- 2-0- 851462216438doi-10.1109%7fED.2022.3231818 &garnten0-0408md5=C916b743f6e16eedb6448b60 3dde9375
J. Kim, Im, I.	Anthropomorphi c response: Understanding interactions between humans and artificial intelligence agents	Computers in Human Behavior	2023	135	•		Anthropomorphic response, Anthropomorphism, Artifical Intelligence, Human and nonhuman interaction, Perceived cognitive intelligence, Perceived emotional intelligence, intelligence agents, Artifical Intelligence, Artifical Intelligence, Gene, User form, Behavioral research	This study of anthropomorphic response to artificial intelligence begins with an extensive review of the literature and an identification of concegnuid distinctions between anthropomorphic may dark-topomorphic response. The abstroth develop and instrument for measuring how users form anthropomorphic response. The submot develop and result 20 users for a palet study and 300 users for the main study. Participant's response to a scenarios decircling interactions with banking service chalots of varying appearance and intelligence. Results show that anthropomorphic response the depend on perceptions of agent appearance, capital intelligence. The study enhances understanding between the study of the study of the study and the study of th	10.1016/j.chb.2022.107512	https://www.scopus.com/inward/record uri?eid=2- 220- 851802250688doi=10.1016%7J.chk.2022.107512 &&partner0=40&md5=acb729c033e36f21dad2bfed 8cdd13a6
Y. Kim, Kim, J. H., Kim, Y. M., Song, S., Joo, H. J.	Predicting medical specialty from text based on a domain- specific pre- trained BERT	Int J Med Inform	2023	170	2	104956	Human, Artificial Human, Crood 4, 9, Medicine, Adaptation, Psychologisal, Cognition, Natural Language Processing, didirectional expensions in transformers, Desepteraring, Medical question and-answer processing, competing financial interests or personal processing, competing financial interests or personal processing, competing financial interests or personal appared, to influence the work reported in this paper.	BACKBONUD: Owing to the preventence of the convention disease (COVD-B), coping with dirical issues at the individual level has become important to the healthcare system. Accordingly, precise initiation of treatment after 1 hospital with the required for processing (NLP), such as healthcare that the or a dirical devision support system, the health dirical issues at the individual level dirical system. Furthermore, support for decisions on the medical specially precision in the suitable tools for an advanced dirical system. Furthermore, support for decisions on the medical specially precision model from the intal visit can be helpful. MATERIALS AND MITHODS: In this support for decisions on the medical specially precision model more suitable tools for a advanced and labeled specialities craged from a weaks for the medical question and smarce were. The model was fine-tuned for predicting the required medical specially precision from the dataset comprised pairs of medical question tests and labeled specialities craged from a weaks for the medical question and smarce were. The model was fine-tuned for predicting the required medical specially prediction weaks more strenk. The odd was fine-tuned for predicting the required medical specially prediction weaks more strenk. The odd was fine-tuned for predicting the required medical specially prediction and smarce weaks. The odd was defined the trend weak of the predictive performance compared with foor define and the site strengt weaks of the predictive performance compared with competitive weaks in the trend strengt special spec	10.1016/jijimedinf 2022.104956	
Y. Kim, Kim, J. H., Kim, Y. M., Song, S. H., Joo, H. J.	Predicting medical specialty from text based on a domain- specific pre- trained BERT	INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS	2023	170)		Bidirectional encoder representations from, transformers, Deep learning, Medical specifiky prediction, Medical question - and- answer post, Natural language processing	Background: Owing to the prevalence of the coronavirus disease (COVD-12), coping with clinical sues at the individual level has become important to the healthness peets. Accordingly, previse initiation of treatment after a happing with clinical prevalence and processing NLP), such as a healthness characteristic of a single or specific on a barraket boto or a dividue clinical special processing and the properties of the single processing and the properties of the single single prevalence and the single single prevalence of the single single prevalence of the single single prevalence of the single	10.1016/j.ijmedinf.2022.104956	
M. R. King	The Future of AI in Medicine: A Perspective from	Ann Biomed Eng	2023	51	. :	2 291-295	*Software, *Artificial Intelligence		10.1007/s10439-022-03121-w	
M. R. King	a Chatbot A Conversation on Artificial Intelligence, Chatbots, and Plagiarism in Higher Education	Cell Mol Bioeng	2023	16	5 :	1 01. Feb			10.1007/s12195-022-00754-8	
M. R. King, chatGpt,	A Conversation on Artificial Intelligence, Chatbots, and Plagiarism in Higher Education	Cellular and Molecular Bioengineering	2023	16	5 :	1 01. Feb	a artificial intelligence, college student, Editorial, health care, human, plagiarism, tertiary education		10.1007/s12195-022-00754-8	https://www.scopus.com/inward/record.uri?eid=2- s2.0-85145491429&doi=10.1007%2fs12195-022- 00754 & & & & & & & & & & & & & & & & & & &
F. C. Kitamura	ChatGPT Is Shaping the Future of Medical Writing but Still Requires Human Judgment	Radiology	2023			230171			10.1148/radiol.230171	

K. Kittipimpano n, Noyudom, A., Panjatharaku J. P., Visudtibhan, P. J.	Use of and Satisfaction With Mobile Health Education During the COVID-19 Pandemic in Thailand: Cross- sectional Study	JMIR Form Res	2023	7		e43639	Covid-19, chatbot, mitealth, satisfaction, use	BACIGROUPD: haracford is a mobile health (intentiall) education system that provide the Thia population with information about (2010) 30 and self-risk ascenames memorybal has a buildin system that provide submits (constraints) (panallable A hours per day) ind a line chat function that allows users to directly communicate with health professional (panallable A hours per day) in the self-risk ascenames (1) (2010) 31 and constraints) and an analysis of the self-risk and the self-risk asset asket questions. (4) edit-risk assessment, (5) hospital finding, (6) contact number finding, and (7) line chat with a health professional. OBLICT: This study investigates the use of an attraction with the strain-Cook system. MTHODS: Overall, to people were recruited via RamaCoid by translatication and the strain AmaCoid Asystem. MTHODS: Overall, and people were recruited via RamaCoid by translatication with the system. The questions were answered using a 5- point liker traile. Descriptive statistics were used to describe the participants characteristics and their use of and satisfaction with the RamaCoid system. The Nam-Withinky U Lets was performed to examine the difference in user and satisfaction between the adult and older adult groups. RESULTS: The participants showed high use of and satisfaction as using the information task as care of themelows and their family, and they gained information about the CVDU- 39 risk. The users were satisfied with the system because the information on was easy to understand, fusive/trivit, and u to data information and metal adult groups allower use of and assistication with the system. Rescue Strain about their CVDU- 39 risk. The users were satisfied in minimum and increase data care to themelower to health information and health care service. Providing ongoing updated information, improving the attractiveness of the media information, and the age group difference are important tasks for further system development.	10.2196/43639	
E. Klang, Levy- Mendelovich , S.	Evaluation of OpenAI's large language model as a new tool for writing papers in the field of thrombosis and hemostasis	J Thromb Haemost	2023						10.1016/j.jtha 2023.01.011	
E. F. Kleinau, Lamba, T., Jaskiewicz, W., Gorentz, K., Hungerbuehl er, I., Rahim, D., Kokota, D., Maliwichi, L., Jamu, E. S., Zumazuma, A., Negrão, M., Mota, R., Khourí, Y., Kapps, M.	Effectiveness of a chattor lin improving the mental wettleng of health workers in Malawi during the COVID-19 pandemic: A randomized, controlled trial		2023		(Kleinau E.F., ekleinau @urc- chs.com) Global- Latin America and Caribbe an (LAC) West Africa Region, Universi ty Researc h Co. (URC), Chevy Chase, MD, United States	-	adult, anskey, burnout, chatbot, clinical assesment, comparative effectiveness, controlled study, coronavirus direase 2019, depression, direase 2019, depression, effects size, female, health care facility, health care personnel, many, hierar study, Malawi, mele, mental health, metal health care personnel, outcome assesment, panelin care health care personnel, outcome assesment, avellebeing randomized controlled trial, risk assessment, wellbeing	After the detecterious effects of the COVID-19 pandemics on healthcare worker metal health, we tested the effectiveness of an interactive data/sty. Valik, for improving wellbeing and reliative among healthcare workers in Malawi, a country with few metal health professionals. We conducted a randomized, controlled trial (RC1) to investigate our hypothesis that Vlalk is more effective in improving metal health and exclinate exclusions that massive internet resources. For our 2-amo, Sweek, panel RC1 (GRC1) Registry, trial ID SACTNIS578480), we recruited participants from 8 professional addres from public and private healthcare facilities. The trastiter and muse of Vlalk is incored and mexicial fails to internet resource. Jo 1348 participants, 512 completed baseline and endline assessments as assuments provide doutcome neasures for anxiety (GAD-7), depression (MQ-92), bornnot (SDI), indineties (LCIA), emineter (BF-1), and endlinesche bulleng activities, Via ambyad effectiveness and social provide baseline and endline assuments. Sa assuments provide doutcome neasures for anxiety (GAD-7), depression (MQ-92), bornnot (SDI), indineties (LCIA), emineter (BF-1), and endlinesche bulleng activities, Via ambyad effectiveness and social provide baseline advective advective that the same advective set of advective active (JAA) effectives. Col. 881 00, 2013. In abound (JAS) (SGI SGI - 1.321 00, 2013). Coll-300 0, 2681 0 and reliance advective JAB (SGI COL 320 0, 2014). The same advective advective dout returnet effect to nonlineau col active advective dative advective advective advective data advective advective advective advective data advective advective data advective. JAB (JAS) (J	10.1101/2013.01.24.23284959	http://www.embase.com/seard/results?ubation /www.eordkii-u2254440&from-export, http://dx.doi.org/10.1101/2023.01.24.23284959
B. Kilmova, Pikhart, M., Polakova, P., Cerna, M., Yayilgan, S. Y., Shaikh, S.	A systematic Review on the Use of Emerging in Technologies an Applied Language at the University Level	Systems	2023	11	. 3		Al, applied anguage, chattosts, English as a foreign language, foreign language doctantion, mobile spip, practical implications, university	At present, emerging technologies, such as machine learning, deep learning, drivanous forms of articular intelligence are pertentarial gifferent fields of deutation, including foreign januage deutation (ITC). Whoevevir, the current young generation was bon into the technological environment, and they perceive technologies as being an indipensatile part of their everyday technologies in ILC, analysis in secting a learning Explicit and an append impugues. Therefore, the provoce of those perceived technological and technological and technologies that are currently efficiently employed in foreign language technic gand learning a facilit and an append impugues demonstration of the perceived and the section of the section of the section of the section of the perceived and the technological and technologies in ILC emerginal technologies, such as chattoss or virtual reality (VR) devices, that are being emission of the technologies (ILC) devices and the technologies, such as chattoss or virtual reality (VR) devices, that are being emission of the learce technologies, such as chattoss or virtual reality (VR) devices, that are being emission of the learce technologies, such as chattoss or virtual reality (VR) devices, that are being emission of the device of the learce technologies, such as chattoss or virtual reality (VR) devices, that are being emission of the device of a foreign language [ILC] devices, thore to percentional the development of FL vocabulary. The findings also indicate that although the FL teachers might theoretically how shout there learts technological devices, such as chattos to avoid the anore machine technologies and the developed in thread and pedlegoically guided on how to purposefully implement them in their fL cases to support tracking introduction into device in the device interview. The states and the states technologies and the states technologies and the developed interview. The states are deviced to devine the weight the evicting a foreign language as an applied language. O	10.4.390/yystemii1010062	11892.//WWW.1009U.001/1184/17(F6060 UII:1686- 220- 23-24-23-2684doi-10.3390%2fsystem:110100428 generatio-10486md5-8fc02738c17f03f412f7bc0229 595566
L. Kohnke	L2 learners' perceptions of a chatbot as a potential independent language learning tool	INTERNATIONAL JOURNAL OF MOBILE LEARNING AND ORGANISATION	2023	17	01. Feb	214-226	chatbots, L2, EAP, tertiary education, independent language learning, language learning, dialogflow, FUTURE, ELIZA, BOTS	Independent language learning is parameter for these withing to develop proficiency in a second or foreign language. Language learners of the how fee cooperunities to communicate and interact activaly in their target language. In this or plane study, a chalbot was developed to assist second-language learners at a tertiary electration institution in inform form with independent language learning, employed as extensions (N = 128) followed y users structures interviews (N = 12) goals indicative into learners' experiences with the chalbot. The results suggested that the participants enjoyed interacting with the chalbot both in and out of class and perceived that it improved their English skills. These findings have implications for language teachers and the future development of chalbots.	10.1504/IJMLO.2023.128339	
E. Konya- Baumbach, Biller, M., von Janda, S.	Someone out there? A study on the social presence of anthropomorphi zed chatbots	Computers in Human Behavior	2023	139			Anthropomorphism, Chatbock Hedonic, Sensitive Information, Social presence, Utilitarian, Behavioral Interaction, Cost-efficient, Human like, Purchase Intention, Sensitive Informations, Time-efficient, Sales	Comparies zer increasingly employing text-based ditubots is a time and oxis-efficient way to interact with customers. While comparies begin to explore anthropomorphic clutoble designs by inhuling chalsots with human-like characteristics, the effectiveness of chatbot anthropomorphism remains unclear. We conducted three experiments to assess the effectiveness of chatbot anthropomorphism in actomer-chatbot interactions. By equipping chatbots with human-like characteristics, the effectiveness of chatbot anthropomorphism. Our results show significant positive effects of chatbot anthropomorphism on trust, purchase interlicity, word of mouth, and satisfaction with the shopping coperations. More importantly, we identify acoust presence as the underlying mediating mechanism of these effects. These effects are nobust and not contingent on shopping context softsingulabed by headon versus utilitant antopoing moleculations or the disclusor of non-jenesitive information by oustomers. The present reasers denotes managerial implications for companies that seek to effective yemploy chatbots in actomer interactions. Further, its shup davances reasers do nucleaner extension towards anthropomorphism that bots and demonstrates that social presence is a critical driver of successful customer-chatbot interactions. © 2022 Esevier Ld	10.1016/j.chb.2022.107513	https://www.scopu.com/inward/tecord un?ede1- 230- 851397385338.doi=10.1016%2fj.chb.2022.107513 8.gartent0-040.mdfs=302fc355baf1a2d52b4e6dc0 bd8f5953
C. Krettek	[ChatGPT : Milestone text Al with game changing potential]	Unfallchirurgie (Heidelb)	2023						10.1007/s00113-023-01296-у	
M. A. Kuhail, Alturki, N., Alramlawi, S., Alhejori, K.	Interacting with educational chatbots: A systematic review	Education and Information Technologies	2023	28	: 1	973- 1018	Chatbot, Conversational Agent, Educational Bot, Human-Computer Interaction, Interaction Styles, Literature Review	Obtails hold the promise of revolutionizing elucitation by orgaging lemense, personalizing lemening activities, supporting educators, and developing dee mixing lum locarence babarios. This issues presents a systematic review of 36 papers to understand, compare, and reflect on recent attempts to utilize databatis in ducation unity generation as systematic review of 36 papers to understand, compare, and reflect on recent attempts to utilize databatis, interaction styles, evidence, and limitations. The results show that the chatobus were mainly designed on a web platform to leact compare science, linguage, general education, and a few other fields such as engineering and mathematics. Further, more than half of the chatobus were used as teaching agents, while more than a still were pere agents. Klosel of the chatobas used a perdetermined conversional path, and more than a quarter utilized a personalized learning approach that catered to students' learning meeks, while other chatobas used as evaluated with experiments, and the results principles. Moreover, more than half of the chatobas were evaluated with experiments, and the results principles. Moreover, more than half of the chatobas user evaluated with experiments, and the results principles. Moreover, more than half of the chatobas were evaluated with and laboarine learning approach that catered to students' learning and subjective satisfaction. Challenges and limitations include indequate or invitient dataset training and a lack of relations or used on periments. Future studes show the effect of chatbot personality and localization on subjective satisfaction and learning effectiveses. B 2022, The Author(s).	10.1007/s10639-022-11177-3	https://www.soppa.com/inward/wcodu.uri3dd=2 20 - 54313652457878.doi=10.1007782/510639-022- 11177- 11177- 11279-10-008md5=e3ds4574f06614009128d6 9e10fc14fb
A. Lahat, Klang, E.	Can advanced technologies help address the global increase in demand for specialized medical care and improve telehealth services?	J Telemed Telecare	2023			1357633 x231155 520	Telemedicine, artificial intelligence (AJ), chatGPT, large language models (LLM), telehealth		10.1177/1357633x231155520	
R. Langevin, Berry, A., Zhang, J., Fockele, C. E., Anderson, L., Hsieh, D., Hartzler, A., Duber, H. C., Hsieh, G.	Implementation fidelity of chatbot screening for social needs: Acceptability, feasibility, appropriateness	Appl Clin Inform	2023					DBECTORS: Patient and possider facing correning topic for social determinants of health have been replaced in a veriety of ordentics, however, directures correning topic. We investigated patient procession of a charabit for social needs correning using three influentiation carcterine measures: acceptability, iterability, and approximates. METHODS We implemented and charabit of nocial needs correning topic. We investigated patient procession of a charabit for social needs correning using three influentiation carcterine measures: acceptability, iterability, and approximess. METHODS we implemented and charabit of nocial needs correning at one large patie hospital emergency department (EQ) and used concurrent transplations to accesses perceptions of the charbot and or screening. SDE Othors-up phone intenviews, RESULTS: The screened participants ranged and that the charbot are an acceptable, feosible and appropriate way of screening. Through interviews (n=22), social needs is creening at one large patie for social needs screening. Through interviews (n=22), social needs is retering at one large patient model information on data use and more support in accessing resources. CORCUSIONS: In this study, we deposed a charbot or count needs screening. Findings suggest that charbots are a promising modality for social needs screening and consecretivity engage area, device patient and dound patients previoured the charbots of an accessful results, and appropriate modality for social needs screening. Findings suggest that charbots are a promising modality for social needs screening and consecretivity engages large, device patients to care for social needs, improving health and well-being for members of vulnerable patient population in the social needs screening and consecretivity engages large diverse patients to care for social needs, improving health and well-being for members of vulnerable patient populations.	10.1055/a-2035-5342	

C. Larkin, Djamashi, S., Boudreaux, E.D., Vargani, F., Garner, R., Siddique, M., Pietro, J., Tulu, B.	ReachCare Mobile Apps for Patients Experiencing Suiciality in the Enregency Department D	JMIR Form Res	2023	7		e41422	emergency department, engagement, mobile app, mobilehone, suicide, usability	BACKGRUND: Many individuals with suicide risk present to acute care settings such as emergency departments (ED) however, staffing and time constraints much that many ED are not well expend to deliver existing such that interpreter partners starting start times constraints much that many ED are not well expend to deliver existing a such that interpreter partners starting start times constraints much that many ED are not well expend to deliver existing a such that expend to deliver any expenditory and that that that the expenditory of the DS and the expenditory of the expenditory and the for widespread adoption. OBECTIVE: On the basis of the ED SAFE intervention, we aimed to develop 2 app for patients with studier risk: we also guiding patients through starty planning in the ED (DI app) and a sunstynhore app rounding patients components to the ED-SAFE program on their phones after discharge (patient app). We then tested the usability of these apps with patients presenting to the D UW starts deliver at risk for suicide using inputs from clinication (no.2) and suicidopilogits (no.4). Rest, we validated these persons during interviews with individuals with where delivers presenting with the guality and find by the safety gain context. RESULTS we developed 2 an proteins a safety plan, using a suicidatify (no.6) and used them to notion our application designs. We find-tested the apps with TD patients presenting with its a web patients of the the advice during DD Advision that guides the patient by creating a safety gain using a shatbot-type interview. The study clinical method results with advise that the referonsize and starts (follow-up appointments with that refering the appeared based on participantility testing (no.2) develocide the interviews the interviews start interviews with interviews and that refering the appeared based on participantility testing (no.2) develocide testing (no.2	10.2196/41422	
P. Lee, Fyffe, S., Son, M., Jia, Z., Yao, Z.	A Paradigm Shift from "Human Writing" to "Machine Generation" in Personality Test Development: an Application of State-of-the-Art Natural Language Processing	Journal of Business and Psychology	2023	38	1	163-190	Al-based assessment, Automatic item generation (AG), Gender bias, Natural language processing (NIP), Personality, Psychometric properties, Test development	Natural language processing (NLP) techniques have become increasingly popular in areas of psychological assessment. Recently, researchers have sought to use NLP techniques for automatic time generation (AIG) in the personality domain. Nevertheless, NLP-based approximates to personality AIG are new and many questions are atill unanaveed. Our research holidils upon previous illustrations of AIG in personality items. This apports phone bore devices the structure and the structure and the structure on generate personality items. This apports phonoless were parent and and the structure and the structure and the provide good parameters and the structure and the structure and the structure and the structure and and approaches. Second, we thoroughly compared various psychometric properties between machine and human- authored personality items. Listly, we examined the measurement invinance of manetality items between gender groups to ensure fair organizational decision making. Results revealed that the machine-authored personality items between gender groups to ensure fair organizational decision making. Results revealed that the machine-authored personality items between gender groups to ensure fair organizational decision making. Results revealed that the machine-authored personality items between structure structures and the machine-authored personality items between structures of structures of the structure of between machines. A structure on testions, contributions, and duran testions of principes of the calculations for the structure. But the authored personality items between a discussion devices of principes between machines. A structure of the stru	10.1007/>10869-022-09864-6	https://www.scopus.com/inward/record.un?eid=2- s2.0 &5131297348doi=10.1007%2/s10869-022- 09864- 68partner10=408md5=0f04abet528396dd5a0f857 a82c7at01
D. M. Levine, Tuwani, R., Kompa, B., Varma, A., Finlayson, S. G., Mehrotra, A., Beam, A.	The Diagnostic and Triage Accuracy of the GPT-3 Artificial Intelligence Model	medRxiv	2023					IMPORTACE: Artificial intelligence (A) applications in health care have been effective in many areas of medione, but they are often trained for a single tax using labeled data, making deportment and generalizatility valuering, which are a general- purpose A language model can perform diagnosis and trage is unknown. DBICTIVE: Compare the general-purpose Generative Pre-trained Trainformes (GPT-3) 4 models diagnosis and trage performance to attending hysicians and buy adults who use the internet. DESIGN: We compared the accuracy of GPT-3's diagnostic and trage abality for 48 validated case vigetetes of both common (e.g., valid lines) and severe (e.g., heart tatac) contains to lay popel and practicing physicians. Finally, we examined how well calibrated GPT-3's confidence was for diagnosis and trage. SETING AND PARTICIPANTS: The GPT-3 model, a nationally regressional setting of physicians diagnosis, correct trage, RESULTS: Annog al cases, GPT-3 regleid with the correct diagnosis in its trage Jost 78, 95, 97, 50, 98, 99, 67, 98, 75, 75, 98, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75	10.1101/2023.01.30.23285067	
M. Liebrenz, Schleifer, R., Buadze, A., Bhugra, D.,	Generating scholarly content with ChatGPT: ethical	Lancet Digit Health	2023						10.1016/s2589-7500(23)00019-5	
Smith, A.	challenges for medical publishing									
M. K. Looi	Sixty seconds on ChatGPT	Bmj	2023	380		205			10.1136/bmj.p205	
J. H. Lubowitz	ChatGPT, An Artificial Intelligence Chatbot, Is Impacting Medical Literature	Arthroscopy	2023						10.1016/j.arthro.2023.01.015	
S. Luca, Clausen, M., Shaw, A., Krishnapillai, S., Adi- Wauran, E., Faghfoury, H., Costain, G., Jobling, R., Aronson, M., Liston, E., Silver, J., Shuman, C., Chad, L., Hayeems, R. Z., Bombard, Y.	Finding the sweet spot: a qualitative study exploring patients' acceptability of chatbots in genetic service delivery	Hum Genet	2023			01. Okt		Chatbots, web-based antificial intelligence tools that simulate human conversation, are increasingly in use to support many areas of genome medicen. However, patient preferences owneds using dhatbot across the range of chatbot alterings are unknown. We conducted a qualitative study with individuals who underwent genetic testing for themselves or their dhick Participants were adde about their preferences for using a clubic study that testing journer, thematic analysis medicated add about their preferences for using a clubic study in the study area of the study medicated at about to be beneficient for rary simple status (e.g., answering FAO) or reny convolut take (e.g., explaining result). Chatbots were accessible for moderative complex taks (here, answering FAO) or reny convolut take (e.g., explaining result). Chatbots were accessible for moderative complex taks (here, answering FAO) or reny convolut take (e.g., explaining result). Chatbots were accessible for moderative complex taks (here, answering FAO) or reny convolut take (e.g., explaining result). Chatbots were accessible for moderative complex taks (here, answering FAO) or reny convolut take (e.g., explaining result). Chatbots were accessible for moderative study and explanement for unical explanement for unical care. Participants and a "after or (i.e., access to a clinician) (er needs not addressed by the chatbot. This study provides timely nisghts into patients' comfort with and parceived limitations of chatbots for genomic medicine and can inform their implementation in practice.	10.1007/x00439-022-02512-2	
S. Luca, Clausen, M., Shaw, A., Lee, W., Krishnapillai, S., Adi- Wauran, E., Faghfoury, H., Costain, G., Jobling, R., Aronson, M., Liston, E., Silver, J., Shuman, C., Chad, L., Hayeems, R. Z., Bombard, Y., Bernier, F., Brudno, M., Carroll, J., Kordina, J., Hewson, S., Jamison, T., Korlida, R., Laberge, A.	Finding the sweet spot a quillative study exploring patients? acceptability of chattost in genetic service delivery	Human Genetics	2023				article, chatbor, child, chical article, conford, rug safety, female, genetic screening, genomic medicine, human, investment, male, qualitative research, thematic analysis	Chabtos, web-based antificial intelligence tools that simulate human conversation, are increasingly in use to support nany areas of genomic medicine. However, paint preference toweverk using dhatbota across the range of indinal exitings are unknown. We conducted a qualitative study with individuals who underwent genetic testing for themselves or their rollid. Participants were acade about their preferences for using a clubota within the genetic testing for themselves or their rollid. Participants were acade about their preferences for using a clubot within the genetic testing forms. Pharmatic analysis employing interpretive description was used. We interviewed 3D participants (27% female, 50% 50 - years). Participants considered chattos to be indificient for y simple tass (e.g., anavering FAQ) or year compares task (e.g., equaliting result). Chattost were acceptable for moderately complex tasks where participants perceived a lavorable return on their intestiment of increase if the chattor was used as a complement to but not a replacement for usual care. Participants were also also as a complement to but not a replacement for usual care. Participants wanted a "fattery net" (i.e., access to a discion of chalende addressed by the chattor). This study provides timely institution statents' conflort with and perceived limitations of chatbots for genomic medicine and can inform their implementation in practice.	10.1007/600439-022-02512-2	https://www.embase.com/seat//seat/Seat/Seat/Seat/Seat/Seat/Seat/Seat/S
W. Lukose, Sarode, A. V., Shivekar, R. S.	Impact of Covid- 19 on the Usage of Ai with Respect to Chat Bots in Hotels	Journal of Pharmaceutical Negative Results	2023	14		577-585	chatbot, medical robot, motion sensor, adult, age, article, artifical intelligence, automatic speech recognition, consumer attitude, cornavirus disease 2019, descriptive research, digital technology, human, regression analysis, retrospective study, robotics, young adult	Nobody might at any point imagine that this world would come at a halt in 2020, when the Covid 19 previously hit nobody accepted II covid get such giantic changes which would change the world as far as we might be concerned. It welcomed on many changes like work-form-home, covid separating, changes in how cleanlines is level puwith and with his to variant enterprises as well as an opportunity to arrive at new levels regarding innovation, particularly in lockings. With the requirement for contacties assistance during the pandimic, the upside of an Al attendint turned out to be significantly additionally articulated. The study descriptor in nature and adopted snowball sampling for collecting the data. The study the impact of ooid -13 on the usage ad articial intelligner, regression analysis was applied and cand that among An and SA (Data-tok, Motion Detectors, Vicie Recognition System) and BS (Online Reservation Al TOOLS INFLUENDING GUEST IN HOTELS 69 Portal). BS is relatively monitoring interprint that the fail in explaining the guest intensity to stay. Study also explained that customer age is not significantly (0.103) impacted the guest intensity to stay in hotel.	10.47750/pm 2023.14.502.70	http://www.embase.com/search/results?aubaction =viewecord8id=1202340238from=export, http://dx.doi.org/10.47750/pm 2023.14.502.70
C. Macdonald, Adeloye, D., Sheikh, A., Rudan, I.	Can ChatGPT draft a research article? An example of population-level vaccine effectiveness analysis	J Glob Health	2023	13		1003	Humans, *Vaccine Efficacy, Computer Simulation, *Software, Confidentiality, Health Personnel	We reflect on our experiences of using Generative Per-trained Transformer CharGPT, a charbot launchet by OpenA in Noomher 2022, to dria 1 essarch rachar (We an im to demonstrate how CharGPT could help researchers to acclerate drafting their papers. We created a simulated data set of 10000 health care workers with varying gate, Body Mass Index (BML) and risk porfliss. Simulated india set of 10000 health care workers with varying gate, Body Mass Index (BML) and risk porfliss. Simulated india and analysis techniques, such as machine learning based approaches, without compromising patient privacy. Infections were simulated with a radiomized probability of hospitalisation. A subuet of these fictitions proves varices and with a factoral varce the reflexed they probability of hospitalisation a subuet of these fictitions proves. A heade language models in data analysis and similar without great analysis and similar working are an area of greative extented research paper. A heade language models in data analysis and similar without great analysis and similar working in research and this exemplar analysis aims to contribute to the understanding of how ChatGPT can be used to facilitate these tasks.	10.7189/jogh-13.01003	

A. Madani, Krause, B., Greene, E. R., Subramanian , S., Mohr, B. P., Holton, J. M., Olmos, J. L., Jr., Xiong, C., Sun, Z. Z., Socher, R., Fraser, J. S., Naik, N.	Large language models generate functional protein sequences across diverse families	Nat Biotechnol	2023					Deep serving singular modes have shown promes in various biolechnological applications, including protein design and engineering. Here we describe holds, and anguage model that can generate protein sequences with a pedication in across large protein families, also to generating grammatically and semantically correct natural language services on diverse topics. The model was tortices and a some the protein families in the protein design and engineering. Here we were services and anguage model that the protein families and anguage services consolidation generation performance of proteins from families with sufficient homologous samples. Artificial proteins from families with sufficient borowner families showed similar capite capite called and the services and the service services and the service services and allow as 31.4%. ProGen is readily adapted to diverse protein families, as we demonstrate with chorismate mutase and malate dehydrogenase.	10.1059/941587-022-01618-2	
T. Mehrali, Cotte, F., Wicks, P., Gilbert, S.	Response to Ben- Shabat et al.'s "Assessing data gathering of chatbot based symptom checkers - A clinical vignettes study"	Int J Med Inform	2023	170		104961	Humans, "Software, Triage, Diagnosis, Diagnostic agnostic accuracy, Diagnostic software, Health information, Limitations, Online, Safety, Symptom checker, Technology, competing financial interests or personal relationships that could have appeared, to influence the work reported in this paper.		10.1016/j.ijmedinf.2022.104961	
T. Mehrali, Cotte, F., Wicks, P., Gilbert, S.	Response to Ben- Shabat et al.'s "Assessing data gathering of chatbot based symptom checkers – A clinical vignettes study"	International Journal of Medical Informatics	2023	170			chatbot, clinical evaluation, human, letter, standardization, symptom, vignette		10.1016/j.ijmedinf.2022.104961	http://www.embase.com/seard/results?ubaction wervecordiki-col27131538/nemeport, http://dx.doi.org/10.1016/j.ijmedinf.2022.104961
C. Meister, Pimentel, T., Wiher, G., Cotterell, R.	Locally Typical Sampling	Transactions of the Association for Computational Linguistics	2023	11		102-121		Today's probabilistic language generators fail short when it comes to producing coherent and fluent text despite the fact that the underhyim groups generation community for the last few years. In this work, we posit that the abstraction of natural language generation as a discrete stochastic process—which allows for an information-theoretic analysis—en provide new ingitists in the behavior of probabilistic language generators, for example, why high-probability texts can be duit or repetitive. Humans use language is a means of communicating information, animing to do as in animationeously efficient and error-minimizing manner; in fact, approblinguistics research suggests humans choose each word in a string with this subconcious gain inmid. We formally define the set of strings that meet the circlencin: Those for which each word has an information content. Such the departed information content, namely, the conditional entropy of our model. We then propose a simple and efficient procedure for enforming that meet the circlencin theor for which, which we all languality yeal analymic, Automatic and human establations show that, in comparison to nucleus and top's kampling. Lickity typical anguing offers competitive generation and battaches use simulations and top's kampling. Lickity typical anguing offers competitive generation and battaches users and and analysisci. Distributed under a CC-BPI-4.0 Incense.	10.1162/tacl_a_00536	http://www.scopuc.com/Inward/record un?edd=2- 22-0 85146962558&doi=10.1162%21Rad_g_00536∂ nel/0=40&md5-51a183b99eb70:31044&cc0cc9848 740
S. Michelmann, Kumar, M., Norman, K. A., Toneva, M.	Large language models can segment narrative events similarly to humans	ArXiv	2023					Homous preview discrete events such as "retainvant visit," and "train risks" in their continuous experience. Due important, prevenuitate for visiting human event previous in the ability of researchers to quarkity when one event ones and nonther begins. Tripcially, this information is devined by gargesting behavioral amountations from several discrete events and alternative computing the sevent of the several event of the several events and the sevents of the sevent of the "concense," solution (obtained by averaging across human amountations, the boundaries identified by QPT QPT of the sevent of th		
I. Miljkovic, Shlyakhetko, O., Fedushko, S.	Real Estate App Development Based on Al/VR Technologies	Electronics (Switzerland)	2023	12	3	8	360' images, Al chatbót, artificial intelligence, Internet of Things, real estate, three- dimensional space (3D), virtual reality	This space deals with an inestigation centered on developing a real estate app on the basis of Antilcial Intelligence and Virtual Reality technologies. The study explores the solvanteges and disadamage of using Antilcial Intelligence and Virtual Reality technologies in real estate. The main focus of the study was on AI/VR applications: that have importance for the real estate industry. This paper equilations was also all technologies to mercent was the solution of the technologies have had a long history in the academic word since the middle of the last century, but not at the same level, due to the lack of large amounts of data and compatisation algows, which is why the interest in VR and AI technologies have had as long this core and word in the state real real and the technologies. In second and the public over the past servel years. Not only the research and abstract ides solved in a three dimensional space and then coll costs on 360° images. With special camers, the entire environment cam be capationed and the technologies have bade also the feasibility of comparies from different industries are becoming more and more relevant. In particular, when it comes to virtual reality, the costs on 360° images. With special camers, the entire environment cam be captured al to three-dimensional space and then cut together in such a way that the viewer can actually look around in this room and monitor events from his perspective. This opens the possibility of presenting different content in a completely new way. Technical altotochings currently hamper the feeling of true immersion in virtual worlds. A detailed Iterature review provides the necessary theoretical basis for artificial intelligence and virtual reality with a particular emphasis on its use in the real estate industry. © 2023 by the authors.	10.3390/electronics12030707	https://www.scopus.com/inward/record.uir?eid=2- 2:0- 85147282428&doi=10.3390%2felectronic1203070 78patrnet0=248md5=3931699d76fal4683d9a646 aa75c8e37
S. R. Mogali	Initial impressions of ChatGPT for anatomy education	Anat Sci Educ	2023						10.1002/ase.2261	
R. Mohammadi Baghmolaei, Ahmadi, A.	TET: Text emotion transfer	Knowledge- Based Systems	2023	262			Emotion recognition, Masked language modeling, Natural language generation, Text style transfer, Transfer learning, Transformers, Character recognition, Computational linguistics, Learning systems, Chałbots, Language model, Political news, Transformer, Writing tools, Modeling languages	Test style transfer aims at transforming the style of a piece of test while keeping its primary content. The style of the test is usually defined as a particular writing toor in different categories, such as formality, potteness, sentiment, and potitical data. Recently, most of the work in the area has been devoted to the problem of sentiment transfer, which tries to transfer an opinionated test into a positive or negative prespective. This assignitional is materializing, political news, tabutts, writing toos, and many others. Do the other hand, emotions as the basic forms of sentiments have brought many attentions to different tasks, including image spike transfer bott by are not well expressed in test by teransfer well. The sentimest area emotion ransfer model that transforms the style of a text to each of the predefined 'anger', 'are', 'go', and 'adness' emotion: emotion-annotated data. Moreover, the model shows promising experimental results against other existing models considering style transfer accuracy, content preservation, and fluency in the ISEAR and TEC emotion corpora. D 2022 Elsevier B.V.	10.1016/j.knosys.2022.110236	https://www.scopus.com/inward/record.uri?eid=2- i2-0 851459721884oi=10.1016%2fj.knoxys.2022.1102 36Spartner70=060md5=b301a3845a38e4b8abd36 940b02a12bb
P. Moons, Van Bulck, L.	ChatGPT: Can artificial intelligence language models be of value for cardiovascular nurses and allied health professionals	Eur J Cardiovasc Nurs	2023						10.1093/eurjcn/tvad022	
R. Morgan, Asiimwe, L, Ager, A. L., Haq, Z., Thumba, L., Shcherbinina , D.	Rehabilitation services must include support for sexual and gender-based violence survivors in Ukraine and other war and conflict-affected countries	Health Policy Plan	2023				Rehabilitation, conflict, gender, violence against women	Sexual and gender-based violence (SGRV) both during times of war and paces-can have impactful negative social and health outcomers. Report of rape being used as and of war in Ubizative are drawing global attention to the need for specalized care for sexual and gender-based violence survivors during times of war and thereafter. While data remains limited, in al November 2022. Thillion population in Ubiane vere reported to need GBV prevention and response service. Service GBV end GBP technologies assistance centres, betters, crisis comes and mobile brigades. Pabellitation services target confidence by the experiments and viol society include: a coordination centre of free ligal ald, online and mobile platforms, charl-tosts, hollnes, assistance centres, petters, crisis comes and mobile brigades. Pabellitation services and the soft public to experiments of SGRV during times of comfile: and wari, however, remain limited. We must make sure that our understanding of rebabilitation extension, and the soft gales. Provide platforms, and this SGRV survivos are not excluded from necessary care. This is particularly important if we want to ensure that rehabilitation services are meeting the needs of the most vulnerable platforms. Activation and on the international rehabilitation centres, and the soft survivos are not excluded trading enders and on the international rehabilitation centres wallability of and access to thee vital life changing services.	10.1093/heapol/cza6005	
G. Napoles, Hoitsma, F., Knoben, A., Jastrzebska, A., Espinosa, M. L	Prolog-based agnostic explanation module for structured pattern classification	INFORMATION	2023	622		1196- 1227	Explainable artificial intelligence, Counterfactual explanations, Symbolic reasoning, Fuzzy clustering, Fuzzy-rough sets	This spare presents a Prolog-based reasoning module to generate counterfactual explans-tions given the predictions computed by a Nark-box distance. Or as approach comprises for well defined stages that can be applied to any structured pattern dassification prob-tem. Firstly, we pre-process the given dataset by impulied may structured pattern dassification prob-tem. Firstly, we pre-process the given dataset by impulied may structured pattern dassification prob-tem. Firstly, we pre-process the given dataset by impulied may structured pattern are mapped to an ordered set of predefined symbols. Thirdly, we encode instances as a Prolog mule using the nominal values, the predefined symbols, the decision discuss and the confidence usuals. Furthly, we compate the overall collection of symbols. This step comes with an additional thereis calcus of the symbols are winningly functions to compare the overall collection of symbols. Prolog nule using future values. Finally, we mellement a chatbo as a proxy between humans and the Prolog based reasoning module to readven at value language queries and generate counterfactual explanations. During the mumerical utations sign symbols: dastasets, we study the performance of our system when using different fuzy operators and stimilarity functions. (a) 2027. The Author(1), Phalidined by Tesiver inc. This is an open access article under the CC BV license (http://creativecommons.org/license/by4.0,/).	10.1016/j.ims 2022.12.012	

H. Nguyen	Role design considerations of conversational agents to facilitate discussion and systems thinking	Computers and Education	2023	192			Applications in subject areas, Consensity-Outboardne Consensity-Outboardne Interface, Improving dassroom texching, Design, Laming systems, Sudents, Chatbotz, Conversational agents, Cooperative/ considerations, Nutural language understanding, System thinkings, Systems thinking	Conversional agents can facilitate learning discussions by applying shutual language understanding to process students, discourse Agents on assume the release of figures schat a parent or menfors to proving extension schatter than the status of this study, we explore how and for whom different to design of a test haved agent (i.e., childed) can facilitate discussion patterns and systems how and for whom different to design of a test haved agent (i.e., childed) can facilitate discussion patterns and systems how and for whom different to design of a test haved agent (i.e., childed) can facilitate discussion patterns and systems haves and agents and the students and interacted with no agent, an expert agent, or a less involved geable general. Results suggest that both agents facilitated learning of systems mechanismum by enhaning transactive exchange, where students bait on prior ideas in their discussion groups. We also found differences in the agents' effects on discussion and learning outcomes based on groups unitation in system thinking pare.tet. Findings highlight the importance of role design considerations of agents in group settings. © 2022 The Author	10.1016/j.compeðu 2022.104661	https://www.scopus.com/Inward/record.uit7eld=2- 120- 35143130588doi=10.101695176.compedu-2022.20 46618pxtheut1=408md5=41a62235ad3fe0c369a9 75638c0d84c4
T. T. S. Nguyen, Ho, D. H. T., Nguyen, N. T. A.	An Ontology- Based Question Answering System for University Admissions Advising	INTELLIGENT AUTOMATION AND SOFT COMPUTING	2023	36	1	601-616	Ontology, chatbots, answer- question systems, domain knowledge base, admissions advising	Question-Answer systems are now very popular and cruial to support human in nationatically responding frequent questions in many fields. However, there systems depend on larving methods and training data. Therefore, it is necessary to organizate good dataset, but it is not an easy job, an onto-organizated domain knowledge base is able to had to reason semantic information and many effective datasets and the state of the state o	10.32604/issc.2023.032080	
W. Ni, Shen, Q., Liu, T., Zeng, Q., Xu, L.	Generating textual emergency plans for unconventional emergencies – A natural language processing approach	Safety Science	2023	160			article, decision making, deep learning, emergency patient, feasibility study, human, human experiment, knowledge base, natural language processing	An emergency plan is an emergency administrative document that specific the course of actions taken to minimize the effects of a crisis or incident. Exitabiling high-quality emergency plans has been a fundmental task for vision emergency administrate agencies. Traditionally, emergency plans are developed based on the experiences of handling past emergencies, this may not be well applied to unconventional emergencies that trair is an aurepeated and unperiedicable manner. This work this goal is achieved by leveraging dee-planning based natural language techniques to englore the interventional emergence is the source of the source of the anticest of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the so	10.1016/j.ssci.2022.106047	https://www.embase.com/search/resultSrubation viewercordiki-Loz202791133/km-eaport, http://dx.doi.org/10.1016/j.ssci.2022.106047
W. J. Ni, Shen, Q. L., Liu, T., Zeng, Q. T., Xu, L Z.	Generating textual emergency plans for unconventional emergencies-A natural language processing approach	SAFETY SCIENCE	2023	160			Emergency plan, Unconventional emergency, Natural language processing, Deep learning, Natural language generation, GROUP DECISION-MAKING, RISK RESPONSE, MANAGEMENT, MODEL, OPTIMIZATION, ONTOLOGY, CRITERIA	An emergency plan is an emergency administrative document that specifies the course of actions taken to minimize the effects of actios or incident. Estabilishing sign-quality emergency plans has been a fundamental tak for various emergency administrate agencies. Traditionally, emergency plans are developed based on the experiences of handling past emergencies, thus may not be well applied to unconventional emergencies that irris in an unrepetited and unpredictable manner. This work proposes a novel emergency plan generation approach to askit decision-making under unconventional emergencies that its goal is achieved by desnigating decycharing based natural langage techniques to ondore the intervictional by plans existing emergency plans developed for common emergencies and the target unconventional emergency; and the relevant target with respect to the target unconventional emergency is retrieved. Then the new emergency plans is formed by organizing the relevant howarding basis is comprehensive evaluation of the quality of generated emergency plans, templical results on a real-world unconventional emergency plan template. Furthermore, a novel emergency plans, templical a real-world unconventional emergency plan template. Terthermore, a novel emergency plan, templical results on a real-world unconventional emergency plan template. Terthermore, a novel emergency plans, templical results on a real-world unconventional emergency plan template. Terthermore, a novel emergency plans, templical results on	10.1016/j.sud 2022.106047	
E. K. Oermann, Kondziolka, D.	On Chatbots and Generative Artificial Intelligence	Neurosurgery	2023						10.1227/neu.0000000000002415	
U. Orhan, Tosun, E. G., Ozkaya, O.	Intent Detection Using Contextualized Deep SemSpace	Arabian Journal for Science and Engineering	2023	48	:	2009- 2020	Bidirectional long short-term memory, Generalized SemSpace, Intent detection, Natural language understanding, Synset vectors, WordNet	In this study, a new approach called Contextualized Deep SemSpace is proposed for intent detection. First, the synset vectors are determined by training the generalized SemSpace method with the WorkNet 3.1 data. Then, each word in an intent dataset is transformed into a syntew stort by a contextualized approach, and finally, the syntev vectors are trained with a deep learning model, itrust like one of contextualized approach doing like IBRT, Education and the syntemic vectors to the dataset with a deep learning model, itrust like one of contextualized dependencing like IBRT, Education and Education and the syntemic vectors to the dataset with a deep learning model, itrust like one of contextualized dependencing like IBRT, Education and the syntemic trained in the syntemic vectors to the dataset with a deep learning the dataset like. This proceed approach, some experiments have been carried out on six well-known intent detection benchmark datasets (INT. Synte, Texebook, Ak Uburu, Vedkopa, and Charbt, Althhough the dependence of its vacabulary on Worknet causes a arrivus number of out of vacabulary problems, results showed that the proposed approach is the most successful intent classific in the Interfarier. According to these results, IC on the said 11 Atdee pering based contextualized syntet vectors can be used successfully in many problems. B 2022, King Fahd University of Petroleum & Minerals.	10.1007/s13369-022-07016-9	https://www.scopus.com/inward/record.uii?eid=2- s20-45134803825&doi=10.1007W2/h11348-022- 07016- 98partneri0=40&md5=ca89u68b6ff54eb1f92c30b0 8a88f878
J. A. Ortiz- Zambrano, Espin-Riofrio, C., Montejo- Raez, A.	Combining Transformer Embeddings with Linguistic Features for Complex Word Identification	ELECTRONICS	2023	12	1		lexical complexity prediction, linguistic features, features fusion, pre-trained large language models	Identifying which words present in a text may be difficult to understand by common readers is a well-known subtask in text complexity analysis. The advent of deep language models has also stabilised the new state-of-the-art in this task by means of end-ore ends main-specific depression and domaintern training of, mainly, transformer-based neural networks. Nevertheless, the usefulness of traditional linguistic features in combination with neural encodings is worth exploring, as the computational cost or traditional inquistic features in combination with neural encodings is worth exploring, as the computational cost or traditional inquistic features in a combining pre-trained and daytated transformer networks with different types of traditional inquistic features. We apply these fatures over classical machine learning dashfers. Dur best results are obtained by applying Support Vector Machines on an English corpus in an LCP task solved as a regression problem. The results show that linguistic features: can be useful in LCP tasks and may improve the performance of deep learning systems.	10.3390/electronics12010120	
J. Pan	Large language model for molecular chemistry	Nature Computational Science	2023	3	1	. 5			10.1038/s43588-023-00399-1	https://www.scopus.com/inward/record.uri?eid=2- s2.0-85146818464&doi=10.1038%2fs43588-023- 00399- 1&partnerID=40&md5=f3a6a31b29f43725a9ba3bb 12618a780
M. Paranthama n, Gayathri, T., Kanishka, S., Lavanya, R.	Chatbot for Hospital Management Using Al	SOFT COMPUTING FOR SECURITY APPLICATIONS, ICSCS 2022	2023	1428		367-378	Artificial intelligence, Support vector machine (SVM), Natural language processing (NLP), Preprocessing, Combination, Extraction, Voice note, Code word, Text mining algorithm	At the world becomes more digitalized, technologies have been enhancing duy by day and are interconnected in all appects. It is tacknot to book an appointment with doctor for all the health critedie sixus in process. The sim is to create a medical bub application using Al from where we can consult a doctor from our comfort at home. This will assist by reducing travel expenses and enhancing anythicity to medical understanding through a medical chabito under our roof. It is amough the most efficient and time saming innovations, but in need to do many dores, chabotis must be made better in the medical community. The proposed design is using Al to devolge a medical chabito that can disquox disorders and provide basic information before approaching a doctor. To overcome this limitation, this project creates a platform for humans to interact with a talkbot that has been interacively developed on data sets using machine learning methods. Instead of taking a logical approach to computation, machine learning algorithms take a more natural approach. The information is kept in the directory in order to identify the code word, revisib the query, and respond to the question.	10.1007/978-981-19-3590-9_28	
D. Y. Park, Kim, H.	Determinants of Intentions to Use Digital Mental Healthcare Content among University Students, Faculty, and Staff: Motivation, Perceived Usefulness, Perceived Ease of Use, and Parasocial Interaction with AI Chatbot	Sustainability (Switzerland)	2023	15	1		artificial intelligence chatbot, depression, digital mental healthcare context, etealath, melatih, technology acceptance model, uses and gratifications theory, artificial metigence, mental health, perception, software, student, theoretical study, university sector	Depression is a worldwide health issue to which various physical, psychological, and social health problems are attributable. To address the issue through the promotion of digital mental healthcare content use, this study examines factors influencing people's intentions to use the content, guided by the technology acceptance model and uses and grafitorison theory. A total 278 students and faculty/staff members at a Korean numerisity tirtle using a digital mental healthcare content (e.g., artificial intelligence chattor content; called MyhattaPolockt and compared a survey questionare associated with their perceptions the content. Participant's depression levels, perceived usfulness, and parasocial interactions emerged as significant and positive factors influencing people's interioris to use MyhattaPolockt. Femal genety rougere age, and specific motives for depression-related digital technology use (i.e., communication and emotional support, information- and guidance-steeling, and habital antertationnel seeking motivity of A chattors as way to help people, specially factors influencing perceived and using and interactions and perceived ease of use emerged as significant and positive factors influencing perceived usefulness. The findings from the study mayly the utility of A chattors as way to help people, specially findings and younger people with depression and interpersonal difficulties, to utilize and benefit from digital mental healthcare content for depression management. O 2023 by the authors.	10.3390/su15010872	https://www.scopus.com/inward/record_uri?eid=2- 12.0- 83.460302088.doi=10.3390%2/bu15010877.8partn erl0=408.md5=958e19ee3cff76841358b18fd210994 a
S. H. Park	Authorship Policy of the Korean Journal of Radiology Regarding Artificial Intelligence Large Language Models Such as	Korean J Radiol	2023						10.3348/kjr.2023.0112	
S. B. Patel, Lam, K.	ChatGPT: the future of discharge	Lancet Digit Health	2023						10.1016/s2589-7500(23)00021-3	
G. Pavone, Meyer- Waarden, L, Munzel, A.	Rage Against the Machine: Experimental Insights into Customers' Negative Emotional Responses, Attributions of Responsibility, and Coping Strategies in Artificial Intelligence-Bas ed Service	Journal of Interactive Marketing	2023	58	1	1 52-71	anthropomorphic visual cues; artificial intelligence-based chatots; artificial intelligence-based chatots; artificial control of responsibility, coging strategies, negative emotions, service failure	In their interactions with chattots, consumer, often encounter technology failures that evoke negative emotions, such as anger and frustration. To chartly the effects of an observation of the emotion o	10.1177/10949968221134492	https://www.scops.com/inward/record.un?eid=2- 2-0- 851409545858doi=10.1177%2f100499682211344 928partner1=0-08.md5=3736e7dffccef6727d35610 1abbea855

J. G. Perez- Ramos, Leon- Thomas, M., Smith, S. L., Slivlerman, L., Perez-Torres, C., Itall, W. C., Iadarola, S.	COVID-19 Vaccine Equity and Access: Case Study for Health Care Chattoots	JMR Form Res	2023	7		e39045	Covid-19, Ict, Information and Communication Technology, adultation, chatshot deterministic, Nealth Care galo, Malth disparity, Nealth Care galo, Malth disparity, Nealth Care galo, Malth disparity, Nealth esparity, Nealth Information, Mealth ductore, Mealth, minority population, mobile health, user experience	BACKGRUND: Disparities in COVID-19 information and vaccine access have energed during the pandemic. Individuals from historically excluded community gas in COVD-19 education, social, and health care services (Including years) and social social based based interface to COVD-19. Commonly gas in COVD-19 education, social, and health care services (Including years) and social social based based to COVD-19. Commonly gas in COVD-19 education, social, and health care vaccinal plot of based metals and the service of the service particularly in health the pandemic's challenges, including access to health care, vaccination and testing efforts, as well a percolar plotterive equipment. Life monitoria of COVDI-19 information CD BEICINE' This project anime to [1] follow an inducation and thereatically driven design process to develop and test a COVDI-19 information CD BEICINE' This project anime to [1] follow an inducation and thereatically driven design process to develop and test as COVDI-19 information and Care vaccine of a tool of 28 testes participated in hist process. Content was curited primarily to provide users with factual answers to common questions about COVDI-19. To ensure relevance of the content, toquic vace efforts and and access and place precision and services and the content, toquic vace efforts and an anticellar and international organizations as well as interdiscipian years. In the context of this development and place process and used toos, a succination throng research. Ansi's repository of education all content was based on national and international organizations as well as formations. This average of 40 users monthly, Across all users, 63.7% (nrs21) of Englith users and 22.14% (nrs2) of Spanih user entervance). The context on cris. 84.8% (nrs21) and Sparkin, nrs2, 53.93% (spashih, nrs2, 22.14% (nrs2) of Spanih users and 22.14% (nrs2) of Spanih user entervanific. Testip arring relative and politic experimence,	10.2196/39045	
K. Peyton, Unnikrishnan , S.	A comparison of chatbot platforms with the state-of-the- art sentence BERT for answering online student FAQs	RESULTS IN ENGINEERING	2023	17			Chatbots, SBERT, Natural language understanding, FAQs, Online learning	believe being enables academic institutions to accommodate increased student members at cask. With this cade cores high downsk on support still for heigh in educy and provide student members at cask. With this cade cores high downsk on support still for heigh in educy and the student student members at cask. With this cade core admission support students. Classics that are subable part in this support process. A chalted can provide contant assibility in annexing common questions, allowing support cask of the student student members at casks of the students prospective students. A variety of approaches can be used to create these chalteds including vertice) platforms, frameworks, and direct model interpretation. A comparison with the case used to create these chalteds including vertice) platforms, frameworks to a state of them stills. This paper compares intent classification results of two popular duattof frameworks to a state of them stills. The state case is and the create these chalteds in classification regulations and metrics. The state of them states are stated to the provide the calible with the states with the states of them stills of them states of them with the state used to create these chalteds in the states of them with the states are used to create these chalteds in the states of them stills of the states of the states of the states of them with the states are used to all creates them and them with the states are used to create these chalteds in the states of the states with the states of the states them and them with the states are used to comparison of 15 scores. Using ten intervise composing 28 states (creates) notices that the states them the states of them with the states with a state of 29.9 states (creates) on the the states segrets that the them the states of them detections and the states and the states of them the states (them at language builded build build based build based build based based build based	10.1016/j.rineng.2022.100856	
M. Pividori, Greene, C. S.	A publishing infrastructure for Al-assisted academic authoring	bioRxiv	2023					In this work we investigate how models with advanced natural language processing capabilities can be used to reduce the time- comsuming process of writing and revining scholarly manuscripts. To this end, we integrate large language models into the Manudot publishing ecosystem to suggest revisions for scholarly text. We tested our At-based revision workflow in three case tables of existing manuscripts, including the present one. Our varials saggest that the models can capital the composition and scholar by characterized and the present one. Our varials saggest that these models can capital the composition and scholar by characterized the scholar with revisions that improve clarity. Given the annount of time that reasorbers pat into caritary grows, we are includent with revisions that improve clarity. Given the annount of the threse scholar by a cademics.	10.1101/2023.01.21.525030	
S. Polesie, Larkō, O.	Use of Large Language Models: Editorial Comments	Acta Derm Venereol	2023	103		adv0087 4			10.2340/actadv.v103.9593	
Y. Qjao, Yu, Y., Liu, S., Wang, Z., Xia, Z., Qjao, J.	Graph Convolution- Enhanced Multi- Channel Decoding Joint Entity and Relation Extraction Model	Jisuanji Yanjiu yu Fazhan/Compute r Research and Development	2023	60	1	153-166	Encode-decoder Graph comolution neural network, dealistion certradino, Relation overlapping. Beckpropagation, Channel coding, Classification (of information), Data mining, Decoding, Extraction, Natural Decoding, Extraction, Natural processing, Channel decoding, Convolution neural network, Dative Article Composition, Extraction modeling, Multi channel, Convolution	Extracting relational inplets from unstructured natural language texts are the most critical step in building a large-state howeverlap graph, but existing researches still have the indiviving problems: 1) Existing models (prove the problem of relations executed steps in the problem of relations) and the problem of the problem of relations to the problem of relations and propagation of errors, which affects the precision and efficiency of relation estimation triples is bed to the accumation and propagation of errors, which affects the precision and efficiency of relation estimation of the proposed. First, the BLSTM is introduced as a model encoder to strengthen the two-way feature faction of works in the text; second, the expendency relationships and between the works in the strences in strengthen the two-way feature faction of works in the text; second, the expendency relationships and advectate the feet of errors accumation and propagation of relation estrengthen the two-way feature faction of the model software the expension of relation overlapping and alleviates the feet of errors accumation and propagation of the text of the experiment selects the current three maintream models for performance werification, and the results on the WT (New York time) distant dynamic three accuracy of relation distribution. May down and the same time; fourth, the experiment selects the current three maintream models for performance werification, and the results on the WT (New York time) distant dynamic that exact you for the text and F Jac in crossed by 435, 535, and 435, Mao, the extraction order stating with the relation is werified in the WebNLG (Web natural language generation) dataset. © 2023, Science Press, All right reserved.	10.7544/isw1000-1239.202110767	https://www.scops.com/inwas//scotd.uri18d5- 12.0.95346445468aoin-10.754492/fissi1000 133.02011077.862448468aoin-10.75492640232 775753ad153erf60a8f8823
Q. Qiu, Tian, M., Ma, K., Tan, Y. J., Tao, L., Xie, Z.	A question answering system based on mineral exploration ontology generation: A deep learning methodology	Ore Geology Reviews	2023	153			BERT model, Corpus construction, Cedogical ontology, Natural language processing, Question answering, Deep learning, Electric transformer testing, Geology, Information filtering, Mineral exploration, Minerals, Natural language processing Bidirectional encoder representation from transformer model, Language processing, Large amounts, Natural languages, Ontology, Stransformer modeling, Ontology, data set, experimental study, learning, source rock	Mneel regionation reports and documents are a rind data source that contains a large amount of geological environments in which mineral deposits from. Among them rin, its difficult to cattat the regurder assures from the large amount of geological data. Despite the availability of sench engines and digital databases that can be used to store geological data, uses are unable to retrieve the information needed for a support. Field in a time commung process. To address this issue, we propose a robust end beneficial gate and filtering information, which can be a time-commung process. To address this issue, we propose a robust end beneficial gate and the distribution of the distribution of the distribution of an advect data that uses and have a support exploration terms. First, we present an automated workflow for constructing automatic question-and-answer datasets based on the anness and definitions in the meine al exploration to an estimation is presented. On the one Tandomese (IBRT) model is trained to test the answers generated from the user input question. Finally, a prototype chabot system based on the WC-cha patient and construction experiments for evaluation is presented. Our proposed method has powerful facture representation and cansing capabilities and thus has the potential to be adopted by other specialized fields (especially where a large number of mineral exploration ontologies already exist). © 2023 The Authors	10.1016/j.oregeorev.2023.105294	https://www.sopas.com/inward/record un?ield=2- i2-0 851461466338460-10.10.16%2fj.oregeorev.2023.10 853494patrente=0-08&md5=ce2a01fc8c4392fef16bd 0abd35sca71
Q. J. Qiu, Tian, M., Ma, K., Tan, Y. J., Tao, L. F., Xie, Z.	A question answering system based on mineral exploration ontology generation: A deep learning methodology	ORE GEOLOGY REVIEWS	2023	153			Geological ontology, Question answering, Natural language processing, BERT model, Corpus construction, GEOSCIENCE, EXTRACTION	Mineral exploration reports and documents are a rich data source that contains a large amount of geological environments in which mineral deposits form. Among them, it is difficult to extract the required answers from the large amount of geological data. Despite the wailability of service miners and digital databases that can be used to solve geological data, users are unable to retrieve the information needed for a specific field in a timely manner. As a result, users usually have to contend with the burden of browing and filtering information, which can be a time communing process. To address this suce we propose a exploration term: First, we present an automated workflow of constructing automic guestion-and-answer datasets based on the names and definitions in the mineral exploration ontology. The Bidirectional Encoder Representation from Transformers (BRT) model is strate to test the manese generated from the user input question. Timaky a prototype chattor system set and the targing capabilities of users the suce input question. Timaky and travpe chattor system based on the WcAsht platform and constructed experiments for evaluation is presented. Dur proposed method has powerful feature representation and eminic quabilities and this has the potential to be adopted by other specialized fields (especially where a large number of mineral exploration ontology exist).	10.1016/j.oregeorev.2023.105294	
S. Rajwal	Design of a Chatbot for Four- to Ten-Year-Old Children Based on Emotional Intelligence	INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATIO NS, ICICC 2022, VOL 1	2023	473		675-683	Chatbot, Natural language processing, Child, Emotional intelligence, Child- smartphone interaction	The development of emotional intelligence in children begins during the early years of a child. Although it is the responsibility of parents to help a child in developing emotional awareness, studies have shown the utility of onlyware systems in ading this process. In this paper, the author presents the design of an emotionally intelligent childred for children. The utochness of an online survey conducted among the parents reported that 70% of the responsents feel that are emotionally intelligent whereas the paper of the parents reported that 70% of the responsents feel that are motionally intelligent whereas the paper label and the parents of the survey of the paper parents that the paper label and the paper label and the fit for the survey between the set devices and develop a highly efficient emotionally intelligent chalton for children which is trusted by their parents.	10.1007/978-981-19-2821-5_57	
A. Rao, Kim, J., Kamineni, M., Pang, M., Lie, W., Succi, M. D.	Evaluating ChatGPT as an Adjunct for Radiologic Decision-Making	medRxiv	2023					BACKBOUND: ChatGPT, a popular new large language model [LMD] ball by OpenAI, has shown impressive performance in a mumber of specialized application. Despite the rinking popularity and performance of AI, studies evaluating the use of LMB for clinical decision support are language varies for two important clinical presentations. Dreast care screening and breast pairs distributions of the studies of the studies MATERNAL AND METHODS. We compared ChatGPTs response to the American College of Radiology (AZI) Appropriate maging screening. Our promotiones the studies of the studies of the studies of the studies was taked to provide the single most appropriate imaging procedure, and a select all that apply (SATI) format, where ChatGPT was saked to provide the single most appropriate imaging procedure, and a select all that apply (SATI) format, where ChatGPT was saked to provide the single most appropriate imaging procedure, and a select all that apply (SATI) format, where ChatGPT was spever a list of maging modalities to assess. Scoring oritice availated whether proposed imaging modalities were in accordance with ACR guidelines. RESULTS: ChatGPT Relived an average OE score of 1.33 (out of 2) and a SATA average percentage correct of 38.5% for brast pain prompts. CDNLLUSION: Cur results demonstrate the feasibility of using ChatGPT for radiologic decision making, with the potential to improve clinical workflow and responsible use of radiology services.	10.1101/2023.02.02.23285399	
R. Ren, Castro, J. W., Santos, A., Dieste, O., Acuna, S. T.	Using the SOCIO Chatbot for UML Modelling: A Family of Experiments	IEEE Transactions on Software Engineering	2023	49	1	. 364-383	Chatbots, family of experiments, modelling, usability, Graphic methods, Groupware, Job analysis, Natural language processing systems, Social networking (online), Usability engineering, Class diagrams, Family of experiment, Modeling, Task analysis, Virtual assistants, Unified Modeling Language	Context: Recent developments in natural language processing have facilitated the adoption of chattost in typically collaborative software engineering tasks juch as digramm modelling). Familie of experiments can asses the performance of tools and processes and, at the same time, alleviate some of the typical shortcoming of individual experiments (e.g., inaccurate and potentially biased results due to a smill humber of participant). Digetive: Compare the usuality of a chattob for collaborative modelling (Le, SOCIO) and an online web tool (Le, Creately). Method: We conducted a family of three experiments to evaluate the usabity of SOCIO jamist the createry online collaborative tool in academic starting. Results: The student participants were faster at buding class diagrams built using the chattos than with the online collaborative tool and more startistic conductor. Chattos sopear to be helpful for buding class diagrams. In fact, our study has helped us to shell gift on the future direction (experimentation in this field and bys the goundwork for researching the applicability of chattods in diagramming. © 2022 IEEE.	10.1109/TSE 2022.3150720	https://www.scopuc.com/inward/record_un?edid-2- 12-0 85126813364&doi=10.1109%27FSE 2022.3150720 & Agartentil-0-40&md5=1cae6f002214a066c8b6154d d0f85f41

T. Rietz, Maedche, A.	Ladderbot—A conversational agent for human- like online laddering interviews	International Journal of Human Computer Studies	2023	171			Chatbot, Laddering, Means- end approach, Smartphone values, Value-oriented research, Agent based, Chatbots, Conversational agents, Human like, Mean- end approach, Means ends, Smart phones, Smartphone value, Smartphones	In size meast-h, laddering interviews are particularly helpful in eliciting galaxi and underling values. However, laddering interviews do not calle due to being impart and training interviews. In this stoky, we provide and evaluate ladderbu, a test based conversational agent (CA) capable of facilitating human-like online laddering interviews. Ladderbu use techniques impired by face-to-face ladderbut agent reactive conversation with users. In a between subject experimental tabley with 25-be participants, we compare Ladderbut against established survey-based laddering approaches in equipring user values for simurations can be first data on exerges, participants participants in (L-Absaed Interviews to be significantly higher compared to establish survey-based laddering garoaches: hever, survey-based laddering more relative to the significantly higher compared to establish survey-based laddering garoaches: hever, survey-based laddering more relative produce twice as many and significantly longer answert. Additionally, we ident the tearnability of the C-based interviews to be significantly higher compared to establish survey-based laddering garoaches: however, survey-based laddering more relative produce ladders that end in values, while C-based laddering trades data at that the componence while structures to explore negative gains. both and in values, while C-based laddering trades data at more complete and comprehensive picture. & 2022 Elsevier Lid both survey- and C-based laddering methods to paint a more complete and comprehensive picture. & 2022 Elsevier Lid	10.1016/j.ijhcs.2022.102969	https://www.scopus.com/inward/record.un?eids2- 2:0- 85145014328.doi=30.1016%24.jijins.2022.102809 8.gartner(10-40&md5-92.a6850.g97494/e815fcf511a 3221fbb
B. Robinson	Speculative Propositions for Digital Writing Under the New Autonomous Model of Literacy	Postdigital Science and Education	2023	5	:	1 117-135		The profileration of powerful new forms of automated assistive writing technologies, natural language generation technologies in particular, rises out call questions advanted the future of iteracy (wing and learning). This article situates as the chenologies within the historical trajectory of Iteracy studies, arguing that the acceleration of natural language generation platforms like GPT-3 may reflect the emergence of a new autoannous model of Iteracy. Guided by recent theretical dwork on automation and global computation, the article offers a series of speculative propositions for digital writing under the new autoannous moded of Iteracy, Guiden gaeers, and subjectivity within a regime of computational radio capitalism. The article concludes with a getture towards a resistive digital writing pedagogy wherein literacy scholars, educators, and students can resist the dominating potentials of exclosingles at the scholar basis them. © 2022, The Author(s), under exclusive licence to Springer Nature Switzerland AG.	10.1007/642438-022-00358-5	https://www.scops.com/inward/record un?ied=7 21.0545245259286ai=01.007%2152438.022- 00358- 55partner[0=0&md5=7c6e43ea23a119f1ede092b fb6ea9588
K.S. Robinson	Static Control for Roll-to-Roll Manufacturing	IEEE Transactions on Industry Applications	2023	59	:	1 93-103	Electrostatic analysis, electrostatic processes, S50, hazardosa areas, manufacturing processes, plastic industry, safety, sparks, Control systems, Elastomers, Electrostatic devices, Fault toreance, Polyproprienes, Process control, Surveys, Accumulated charge, Chatbots, Electrostatic charge, Chatbots, Electrostatic Manufacturing process, Manufacturing, Bracess, Manufacturing, Bracess, Man	Rolt-R-Rolt (122) manufacturing is used actenisively in printing and flexible packaging industries. These commercially important markets exceeded 5380 US3 annually in the US in 2013 with enopyment of abox (2000). Andidion, RSA Operations are increasingly used to produce flexible electronic products and medical devices, which are easily damaged by electrostatic discharges (SSD). Mayn materials used in E28 operations and the polypropylene are relaxibility making them prone to accumulating static charges. Sparks from accumulated charges can ginte fires, injury employees, and damage products. Accumulated charges also cause static disc, which can disrupt makine operations. Estimate that wates used by static electricity from injuries, damaged products, and machine downtime exceeds \$5000 US3 annually in the US. This human static dispates from injuries, damaged products, and machine downtime exceeds \$5000 US3 annually in the US. This human static dispates from injuries a data-driven process. First, identify sources of static charging with a static survey. Next, install static dispates from injuries a data-driven process. First, identify sources of static charging with a static survey. Next, install controlled with accord static survey. Lasky, maintain static performance by regularly verifying static performance and by including static control in Management of Change procedures. © 1972-2012 IEEE	10.1109/TIA.2022.3213229	https://www.scopta.com/inward/record_uni?beids2- 2.0- 851398227528doi=10.1109%2fTIA.202.32132298 partnernI=0.68md5=2a18412848406039f93f9b2c 287066
K. Roy, Gaur, M., Sottani, M., Rawte, V., Kalyan, A., Sheth, A.	Proknow: Process knowledge for safety constrained and explainable question generation for mental health diagnostic assistance	Frontiers in Big Data	2023	5			espärainbillin, mentai healtin natural language generation, process knowledge, safety	struit Metral Nealth solicitaris (VMMd) are utilized in health care to provide patient services such as conventing and specialized chical process howledge (PMotoov) used to data indicat digarose. In this work, we define Protove as an ordered set of information that mays to violence-based guidelines or categories of company and estimation to the sets of violence-based guidelines or categories of company and sets and the sets and	10.3389/fdata.2022.1056728	http://www.sopus.com/inward/record.uit?eid-2- 52-0 85146923237340ei-10.3389%2/fidata.2022.105672 B&partner/b=20Bmd5-5da782b1dccfc62ffae4544c 2e819765
M. C. Sáiz- Manzanares, Marticorena- Sánchez, R., Martín- Antón, L. J., González Díez, I., Almeida, L.	Perceived satisfaction of university students with the use of chatbots as a tool for self- regulated learning	Heliyon	2023	9	:	1 e12843	Chatbot, Effective learning, Higher education, Metacognitive strategies, Prior knowledge, personal relationships that could have appeared to influence the work reported in, this paper.	Chatbot are a promising resource for giving students feedback and helpion them deploy metacogative strategies in their learning processor. In this study we worked with a sample of 27 university student, 22 undergraduate and 25 Matter's signed students in itematifications and an exact methodology was agained. The quantitative study analyzed the influence of the worklake educational beel (undergraduates unsatisty degreg and level of prior involving on the futures of the students in itematification and an exact methodology was agained. The qualitative study analyzed the influence of the students of chatbot use dependent on the type of qualitatives. It used. The results indicated that the level of degree of chatbot use dependent on the type of qualitatives. It used. The results indicated that the level of degree of chatbot use dependent of thatbot and the type of qualitatives. It used. The results indicated that the level of degree of the top of handbot use of the chatbot, with the target students's students strategies. The qualitative students's students and the student of the student of the student's students's students's students chatbot and is students's perceived statisfaction with the use of the chatbot, with Master's students's students are not with respect to the level of prior honolegies, on the charbot and the research based on the students' students compared the student and the statisties. Further studies are needed to guide this research based on the students's indexes for the provement.	10.1016/j.heliyon.2023.e12843	
A. B. Saka, Oyedele, L. O., Akanbi, L. A., Ganiyu, S. A., Chan, D. W. M., Bello, S. A.	Conversational artificial intelligence in the AEC industry: A review of present status, challenges and opportunities	Advanced Engineering Informatics	2023	55			Artificial Intelligence, Chatbot Conversational agents, Conversational artificial intelligence, Tourism, Artificial intelligence systems, Artificial intelligence systems, Chatbots, Human language, Language processing, Natural language processing systems	The like of developing a system that can converse and understand human languages has been around since the 1300 x Whb the advancement in antificial intelligence, ALG, conversational A care of age in 2014 with the human chapter's Sri. Conversional Al systems leveraged Natural language Processing (NLP) to understand and converse with humans via speech and text. These systems have been deployed in actors such as a viabios. Tourism, and healthcare. However, the application of Conversational Al in the architecture engineering and construction (AEC) modulative is lagging, and little is known about the state of ceneration Conversational Al. Thus, this study presents say teamtatic review of Conversational Al in the AC industry to provide imgipts into the current development and conducted a Focus Group Discussion to highlight challenges and validate was of opportunities. The findings reveal that Conversational Al an episcetan shall be active to the ZL industry to is currently underexplored. The major challenges for the under exploration Al are projected and validated which would improve the productivity and efficiency of the industry. This study presents study is to take on a discusses for intervention. Lastly, opportunities and future research would provide misplic hists that study on a discementing research area and serves as the first attempt in the AEC lindustry, bot would provide misplic hists that the op benefit to researchers and stakeholders in the AEC industry, 60 2022 The Author(s)	10.1016/j.aei 2022.101869	https://www.scopus.com/inward/record.ui?eids-2- 32-0- 851459706128doi-10.10109X/f_aei.2022.1018098 partner/10-40&md5=4b1721fdc/b1/a96ddd/3069f8 2cc3b
V. Santa Barletta, Caivano, D., Colizzi, L., Dimauro, G., Piattini, M.	Clinical-chatbot AHP evaluation based on "quality in use" of ISO/ IEC 25010	INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS	2023	170			Medical-chatbot quality, Clinical pathway, AHP, ISO, CC: 2010, HERARCHY PROCESS, CRITERIA, DESIGN	Background: Conversitional agents are currently a valid alternative to humans in find-level interviews with users who need information, even in eduty, abust existences or products. In application domains use to health care, this technology can become pervasive only if the percisived "quality in use" is appropriate. How to nexus: chatbot quality is an open question. The international standard SOIEE 23010 propries as set of characteristics (efficiences, efficiency, stristicon, freedom from and context coverage) to be considered where the "quality in use" of a software system has to be measured Basic procedure: This study propress a chical character comprision method based on quality. The propret approach is based on Asalytic Hierarchy Process methodogo (AMP) Findings: Our contribution is twolfact, First, we propose a set of measured for each distracteristic of SOIE 223010 controls to three classes of functionality: providing information, providing granity and process management. Moreover a quantitative method is proposed for making homogeneous the pairwise weights when the AMP is used for the "quility-in-use" composition. As access taxing, a comparison of how servisors of a chatbot was performed. Conclusions: The results show that the proposed approach is based for services base for performing quality comparisons of medical chatbots compliant with the SO/EC 25010 standard.	10.1016/j.ijmedinf 2022.104951	
A. Santosa, Tan, T., Roslan, N., Li, J.	Chatbots in SINGAPORE- SCREENING and triaging: Use of a chatbot for screening of theumatic conditions in a multi-ethnic Asian population	International Journal of Rheumatic Diseases	2023	26		17-18	adult, arthritis, Asian, chatbot, conference abstract, consultation, female, health scale, major clinical study, masc. mobile phone, musculoskietial disease, optietent department, astisfaction, patient trigen, escretistican, patient trigen, study, primary health care, rheumatologist, theumatologist, tablet computer	Background: Arbased conversional agents or chattoso have been used a digital healthcare interventions to deliver cond- efficient and personalised medical support. They have demonstrate benefits in disea diagnosis, monoting and treatment support. In Asia, the availability of chattosis developed specifically for screening rheumatic conditions and elleviering knowledge to people with heumatic conditions is currently still lacking in this plot study, a regional healthcare specification a public-facing chattor that allows users to use the symptom checker function to acceen for potential systemic heamatic diseases and mucculositedia disorder and site presented and light likelihood of systemic rheumatic inflammatics anthroides are adviced on early presentation to a primary healthcare physician, which serves the purpose of availating screening anthroide by the stude and potential solution for organic specification. The mice stude and the inflammatic anthroide are adviced on early presentation to a primary healthcare physician, which serves the purpose of availating screening anthroide by the stude and potential evaluation for organic specifications. The study advances the equation of a stude of the stude and potential evaluation of the stude stude and the stude stude stude to the stude stude stude stude stude stude stude stude stude and the stude s	10.1111/J756-185X14502	https://www.embase.com/search/results?ubaction viewrecordRieLod23133&meport, http://dx.doi.org/10.1111/1756-185X.14502
T. J. Sejnowski	Large Language Models and the Reverse Turing Test	Neural Comput	2023	35	:	3 309-342		Large language models (LLMs) have been transformative. They are pretrained foundational models that are self-supervised and can be adapted with fine-tuning to a wide range of natural language tasks, each of which previously would have required a separate network mode. This is one stop does to the extransformative versatility of human language. CPT and, more recently LaMDs, both of them LLMs, can carry on dallags with human or many topics after this mumi priming with a few examples. Note that the second s	10.1162/neco_a_01563	

M. Y. Shade, Hama, R. S., Eisenhauer, C., Khazanchi, D., Pozehl, B.	Ask, 'When You Do This, How Much Pain Are You In?': Content Preferences for a Conversational Pain Self- Management Software Application	J Gerontol Nurs	2023	49	1	l Nov 17	Humans, Female, Aged, Pain Management/methods, "Self- Management, Pain, Communication, "Mobile Applications	The purpose of the current study was to examine older skulls' preferences for conversational pain management content to incorporate in an interactive application (app) for pain self-management. Conversational statements and questions were written as a critic neuroage evidence based pain self-management behaviors. The content was converted from text to interaction to the encourage evidence based pain self-management behaviors. The content was converted from text to preferences. Overall participants was the conversational content of the conversational content set or preferences. Overall participants was the conversational content on the conversational conversational content management communication. Other skulls preferred the inclusion of conversational statements and questions for monitoring the multificated interactions of pain transment accoundability guidance for alternative transmisst, and understabe effects from pain treatments. The design of mobile health apps must incorporate the needs and preferences of older adults. [Journal of Gerontological Nursing. 49(1), 11-17].	10.3928/00989134-20221205-04	
Y. Shen, Heacock, L., Elias, J., Hentel, K. D., Reig, B., Shih, G., Moy, L.	ChatGPT and Other Large Language Models Are Double-edged Swords	Radiology	2023			230163			10.1148/radiol.230163	
A. Shigarov	Table understanding: Problem overview	Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery	2023	13	1	I	table extraction, table interpretation, table mining, table recognition, Data mining, Knowledge based systems, Natural language processing systems, Semantica, Algorithmics, Natural language generation, Question Answering, Relational data, Table detection, Table understanding, Extraction	Tables are probably the most natural way to represent relational data in visious media and formats. They store a large number of valuable facts that could se utilised of useritor anaverning incovinging base population, natural language generation, and other provides the store of the store	10.1002/widm.1482	https://www.scopuc.com/inward/record un78645- 3314214597186051003251/viewin 4828_8stme 18-408.md5-109767082c704e999le4c50439ef974 8
C. Sinha, Meheä, S., Kadaba, M.	Understanding Digital Mertal Health Needs and Usage With Intelligence-Leid Mental Health App (Wyna) During the COVID-19 Panderosic: Analysis	JMIR Form Res	2023	7		e41913	Covid-19, chatbot, conversational agent, digital health intervention, digital mental health engagement, mental health engagement, mental health app, mobile health, pandemic waves, perceived needs, retention	BACKBOUND: There has been a surge in mental health concerns during the COVID-12 pandemic, which has prompted the increased use of digital platforms. However, there is little involvedge app through the analysis of real-world data collected from uses of a digital platforms. However, there is little involvedge app through the analysis of real-world data collected from uses of a digital mental health app (Waya) regarding this regagement platforms and behaviors, as belown by their usage of the service. OBECTIVE: This study aims to [1] samine the relationship between mental health distress, digital health uptake, and COVID-13 case mumbers; [2] evaluate engigement platforms with the app Aning the study predical, call [3] samine the efficacy of the app in improving mental health outcomes for its users during the study predical, call [3] samine the efficacy of the app in improving mental health outcomes for its users during the plandemic. ME/MODS: This study used a summary from Machine 2012 to 10 collect 2012 for the United Hingdom, the livited Satter of America, and dives any mapped against COVID-13 case numbers and their pakes. The engagement of the users from this period [Ne-551] with the Ways app was compared to that diequivalent samiged on users from a pre-COVID-12 tent messure; regressiones 16 (2004) endershifts and pointed (2004) and aniety (n=1995) on the Platteri Health Customare 5 (NeV) and Generalized Amerikan (Mc-COII). Finding indicate that uses a sessed for UNU+3 access the significant hybrider engagement the increase in the number of installs of the Waya mental health app and the peake COVID 5 access the significant hybrider engagement than the samples from the pre-COVID period (2001 engagement the significant hybrider engagement that the significant hybrider engagement that the samples from the pre-COVID period (2002 engagement hybrider engagement hybrider engagement biolect that users (N=541) during the COVID 5 access and point hybrider engagement that that and (PCOVID period (2002 engagem	10.2196/41913	
E. D. Smith, Savage, S. K., Andrew, E. H., Martin, G. M., Kahn- Kirby, A. H., LoTempio, J., Délot, E., Cohen, A. J., Pitsava, G., Berger, S., Fusaro, V. A., Vilain, E.	Development and Implementation of Novel Chatbot- based Genomic Research Consent	bioRxiv	2023					OBECTUF: To conduct a retropertive analysis comparing traditional human-based consenting porces. Margoned consent consenting porcess METRIALS ADM METRIOS: We developed an exe chat-based consenting porces approved consent forms. We leveraged a previoudly developed platform (Gal*, or "Genetic Information Assistant") to deliver the chat content to consider participants. This content included formation about the study, elacitational information, and a quito assiss understanding, we analyzed 144 families referred to our study during a 6-month time period. A total of 37 families completed content using the traditional process, while 35 fimilies completed consent using in the RSRUSTS (suggement rates were similar between both concenting methods. The median length of the consent convertation was shorter for Gia users compared to traditional (44 arc, within the 15 fimilies completed consent using the result). Sing Garmanet take were similar between both concenting methods, The median length of the consent convertation was shorter for Gia users compared to traditional (44 arc, within Gia), understanding was associated to 10 question quick that notst participants (BSK) passed. Freedback about the dual consent indicated that BSK of garcings that has positive participants (BSK) passed. Freedback about the dual consent indicated that BSK of garcings that has appresent to CONCLUSION: This analysis seggets that it is fassible to use an adomaties dubate to scale obtaining informed consent for a genomics research study. We further identify a number of advantages when using a chatbot.	10.1101/2023.01 23.525221	
W. S. M. Sodré, Duarte, J. C.	Chatbot Optimization using Sentiment Analysis and Timeline Navigation	Revista de Informatica Teorica e Aplicada	2023	30	t	1 32-43	Chatbot, Framework, Sentiment Analysis, Timeline Tree	A challed or conversational agent is a software that can interact or "dark" with a human store using a natural language. The English, for instance, Socies the first challed developed, many the bean created but most of their produces still persist, large providing the right instance to the sure and user acceptance total. Considering such facts, in this work, we prevent a Asthoch- bading transmession of the sure and user acceptance total. Considering such facts, in this work, we prevent a Asthoch- bading transmession of estimation analysis and tree timilates transfer provide a better function answer. For instance, as presented in our experiments, the user can be addressed to a human attendant when its sentiment is very negative, or event transform strands of the tree timelines, as and terational exastes, whenever the user sentiment is user simplicity. Federal University of Rio Grande do Sul, Institute of Informatics. All rights reserved.	10.22456/2175-2745.125825	https://www.scopus.com/inward/record.uri?eid=2- s20-651473678978doi=10.22456%2/2175- 2745.1258258partentD=04&md5=a192/853006/7 Saafa499988c17220/d
A. L. Stanley, Edwards, T. C., Jaere, M. D., Lex, J. R., Jones, G. G.	An automated, web-based triage tool may optimise referral pathways in elective orthopaedic surgery: A proof- of-concept study	Digit Health	2023	9		2,1E+16	Orthopaelic, chatbol, computer-assisted diagnosis, digital health, e-triage, Inee, medical informatics, screening, surgery, certifies that he or she has no commercial associations (e.g. Cossultancies, schol ownership, equily interest, patent/licensing arrangements, etc.) that interest in concencion with the submitted article.	INTRODUCTON: Kine pain is caused by various pathologies, making evaluation in primary-care challenging. Subsequently, an over-reliance on imaging, such as a digorphan and MR exists. Electronic-trage tools represent an innovative solution to hits problem. The aims of this study were to establish the magnitude of unnecessary take imaging prior to orthogaedis surgeon referal, and ascartism whether an e-traject too duperforms existing clinical platways to recommend correct imaging. MCTHODS Patients 218 years presenting with knee pain trasted with arthrocopy or arthroplaty at a large eacdemic hospital between 2013 and 2010 were retroposedivy dentifield. The time and appropriates of imaging were associated as an increasary', unnecessary 'a required MMF. Based on an ebiphic consensus study, a national guidelines, and classified as 'necessary', lumeressary 'a 'required MMF. Based on an ebiphic consensus study, a estinge platelines, and classified as 'necessary'. The existing and garophrateses of imaging were associated as 'necessary'. MRF, 2726 (s in 122) of anthrocopy patients devine were identified. The throogating platelines devine allowing and entring plate (manage: 541 years, 552 (s read)). Preliminary diagnosis were saviable for 33 patients. The eritage tool correctly dentified three of the four knee pathologies (one pathology did not present), 7225 (n = 13) of participants would use the tool again. CONUSION: A substantin number of knee pathologies (one pathology relation excert imaging, current imaging incurrent imaging incu	10.1177/20552076231152177	
C. Stokel- Walker	ChatGPT listed as author on research papers: many scientists disapprove	Nature	2023	613	7945	620-621	*Authorship, *Publishing/legislation & jurisprudence/trends, *Artificial intelligence/legislation & jurisprudence/trends, *Research Report/standards/trends, Ethics. Publishine		10.1038/d41586-023-00107-z	
C. Stokel- Walker, Van Noorden, R.	What ChatGPT and generative Al mean for science	Nature	2023	614	7947	7 214-216	*Algorithms, *Artificial Intelligence/trends, *Science/methods/trends, Machine learning, Mathematics and computing, Publishing		10.1038/d41586-023-00340-6	
C. Stokel- Walker	Al chatbots are coming to search engines - can you trust the results?	Nature	2023				Human behaviour, Information technology, Technology		10.1038/d41586-023-00423-4	
C. Stokel- Walker	Al chatbots are coming to search engines – can you trust the results?	Nature	2023				chatbot, information technology, note, search engine, trust		10.1038/d41586-023-00423-4	https://www.embase.com/search/results?subaction =viewrecord&id=L2021594519&/rom=export, http://dx.doi.org/10.1038/d41586-023-00423-4
H. Strobelt, Webson, A., Sanh, V., Hoover, B., Beyer, J., Pfister, H., Rush, A. M.	Interactive and Visual Prompt Engineering for Ad-hoc Task Adaptation with Large Language Models	IEEE Transactions on Visualization and Computer Graphics	2023	29	1	1146- 1156	language modeling, katural language processing, zero- stor models, Computational inguistisc, Job analysis, Natural language processing vaterns, Yusual languages, Zero-shot learning, Computational modeling, Language model, Language model, Modeling languages, model, Modeling languages	State-of-he-art neural language models can now be used to solve al-hoc language tasks through are-shot prompting without the need or supervised training. This approach has gained popularly in recert years, and researches have demonstrated prompts that achieve strong accuracy on specific NU bask. However, finding a prompt for new tasks requires experimentation. Different prompt temptiates with different wording objects task to significant accuracy differences. PromptDIE allows uses to experiment with prompt variations, visualize prompt performance, and iteratively optimize prompts. We developed a wordflow empirical grounding of promising prompts using quantitative measures of the task. The tool then allows cases deployment of the energy crasted ad-her models. We demonstrate the usility of PromptIDE (demo: http://prompt.vishub.al) and our workflow using several real-world use cases. © 2022 IEEE.	30.1109/TVCG.2022.3209479	https://www.scopac.com/inward/record.un?eid=2- 2-0- 85138820048846i=10.1109%2/TVCG.2022.320447 98partneri0=408md5=fc5dc20bc484230089346dc 579216d6f

O. Suissa, Zhitomirsky- Geffet, M., Elmalech, A.	Question answering with deep neural networks for semi-structured heterogeneous genealogical knowledge graphs	SEMANTIC WEB	2023	14	2	209-237	Question answering, genealogy, neural networks, knowledge graph, natural language processing, Trandformers, cultural heritage, NATURAL- LANGUAGE GERKATON, PERFORMANCE, HISTORY	With the rising popularity of uner generated generalization family trees, are generalized information systems have been developed. State-for the art harut questions memore ing generations us deep neural treatored. (DNM) articulature based on self- attention networks. However, some of these models us esquence-based pupits and are not sublable to work with graph-based structure, while graph-based DNI models require training datasets that are absent in the generalogical domain. This study proposes an end-teen adproxch for questions maxering using generalogical attra as howevideg graphs. Lorgo structure, while graphs and protoch study the protocol structure teets, and (4) training a transformation-based public models may the motor toets, (5) commiting them with unstructure teets, and (4) training a transformation. End for the protocol structure teets are absent to the generalogical advance. This study were in the structure teets and the structure and the structure teets, and (4) training a transformation. End for the structure that there are graph calculated protocols, are used to models was performed. The finding indicate that there are graph calculated protocols, are and gene domain questions. Moreover, the proposed methodology reduces complexity while increasing accuracy and may have particulal implications for generalogical research and real-world projects, making generalogical data accesuble to experts as well as the general public.	10.3233/5W-222925	
W. Sung	More Than Just a Memory American Artist's "sandy Speaks," Black Digitalities of Care, and the Politics of Technological Refusal	Feminist Media Histories	2023	9	1	. 123-143	African American histories, American Artist, Black technologies, care, chatbot, digital art, digital media, failure, police violence, race, Sandra Bland, Surveillance, Technology, The Green Book, violence	This strice examines American Antist's installation "Sandy Speaks," a chattor inspired by Sanda Bland's media activity, as an analysical connective point to pathways politack reshoring/activity and horizon of black diptality and care. First connecting the work to its predigital antendent The Negro Green Book, the article theoragues that the typical aspirations of chattors to sportimize the human is discoved in Taxing/speaks, "ancitator," Black technological citizes of the human Book. Moreover, departing from celebratory discourses of Black technological innovation, the chattor's low Al installates what the abitor calls, a politics of Black parasis in the slow, tooken, ods, technological innovation, as tes remedy, but as theory, college, and an undoing of the reception of technological innovation as most legible mode of recognition. C 2023 by the Regents of the University of California. All rights cereved.	10.1525/fmh.2023.9.1.123	https://www.scopus.com/inward/record uri?elds2- 2-0- 85147098802840-lo101525%2ffmb.2023.9.1.1238 partner10-40&md5-ba808ae823545(95973d5c3a7 9751a04
Y. W. Sung, Park, D. S., Kim, C. G.	A Study of BERT- Based Classification Performance of Text-Based Health Counseling Data	CMES- COMPUTER MODELING IN ENGINEERING & SCIENCES	2023	135	1	795-808	BERT, NLP, deep learning, healthcare, machine learning	The entry tind a hyper-connected society increases the generalization of communication using BSS. Therefore, research to analyze big data accumulated InSSS and entrat meaningful intromismion is bing conducted in vision facility. Buryclawy that the recent development of Deep Learning, the performance is rapidly improving by applying it to the field of Natural language. Processing which is a burginge understanding technology to obtain accurate contential information. In this paper, when a chalot system is applied to the healthcare domain for counseling about diseases, the performance of NLP integrated with machine earning for the accurate data/filtication of medical abulgets from tech-tasked thatth counseling data becomes important. Arrough the various algorithms, the performance of BRE integrated with machine learning for OLN, BNN, LSTM, and GRU. For this papes, the health counseling data becomes important with other algorithms (CAN, BNN, LSTM, and GRU. For this papes, the health counseling data becomes important and a dataset. KABEET was used to classify medical assignst according to symptoms and the accurate of sublication results was measure. The simulation results show that KABERT model performed high performance by more than SN and dose to 18% as large as the smallest.	10.32604/cmes.2022.022465	
T. Tan, Santosa, A., Roslan, N., Li, J.	The development of development of an Arbased conversational agent for conversational agent for theumatic diseases	International Journal of Rheumatic Diseases	2023	26		333	autoantibody, endogenous compound, adul, arthritis, Asia, Asian, chatbot, conference abitxet, decision support system, female, health care system, female, patient care, patient referral, patient care, patient referral, patient care, patient referral, study, primary health care, neumaticlogist, neumaticlogist, study, sutification, scoring system, Singapore	Bickground: Rhematic disease are among the leading causes of physical disability workdwick. Timely assessment and enry treatment of thematic disease improves functional outcome of physical disability workdwick. Timely assessment and enry treatment of thematic disease improves functional outcome of physical disability workdwick. The physical conditions are determined to the there is the state of the sta	10.1111/1736-185X.14505	http://www.embase.com/search/results?ubaction viewevcordiki_clo2023/G68/move.export, http://dx.doi.org/10.1111/1756-185X.14505
G. Tang	Letter to editor: Academic journals should clarify the proportion of NLP-generated content in papers	Account Res	2023			01. Feb	ChatGPT, Misconduct in research, NLP system, Research ethics, Research integrity	This letter to the editor argues that if Academic journals are willing to accept papers that include NLP-generated content under certain conditions, actionia policies should carly the proportion of NLP-generated content in the paper. Excessive use of NLP- generated content should be considered as academic misconduct.	10.1080/08989621.2023.2180359	
H. The Lancet Digital	ChatGPT: friend or foe?	Lancet Digit Health	2023						10.1016/s2589-7500(23)00023-7	
H. H. Thorp	ChatGPT is fun, but not an author	Science	2023	379	6630	313		In less than 2 months, the artificial intelligence (AI) program ChaitOPT has become a cultural sensation. It is freely accessible through a web portal creates the high to food developer, Queenki, The program-which automatically creates test based on written promotives any ponter bart's Nate (hot bar's classic) that a "capacity right provides and the NATE way do gate. When you do gate through, ChaidOPT provides endess entertainment. Lakkel It to rewrite the first scene of the classic American play Death of a Sciencem, but to feature Princes East from the animated more Froet as the main character interlate VIII/Long. The classican and vivo a queen to the first version is a come home from a toget and vivo! The science of the classic American play Death of a Sciencem, but to froetau Prince East from the animated more froeta as the main character interlate. "Mash-ups Ellise the high science and academia."	10.1126/science.adg7879	
S. Tripathy, Singh, R., Ray, M.	ChatGPT is fun, but not an author Natural Language Processing for Consulting System	Science Procedia Comput Sci	2023	218	6630	1335- 1341	Nip, covid-19, dialogue system, sequence to sequence, transformer	In less than 2 months, the artificial intelligence (A) program ChatGPT has become a cultural sensation. It is freely accessible through a web portal creater type to tool develope, Qeenki. The program-which automatically creates test based on written promoties so populate that is taken to the at capacity right normal 'i you attempt to a use it. When you dege through, ChauGPT provides endess entertainment. Laked it to rewrite the first scene of the classic Anerican play Death of a Saleman, but to feature Princes Bias from the animated move Froem as the main character intelsed in URII you and the tool work of Will Jonam. The output was an amusing conversation in which Eus-who has come home from a tough day of selling-is tod by hers on happy. "Come on, Mom. Two're Bia from Foren You're unit opheth "Wash use the their accentarily thus. The work is an other to grant the Cavid-19 pandemic hit in 2019. Ever since provides have been taken to prevent the presenting or mutatic of the write all two is all likes provide and accentaria. Scientists predict that the virus is going to star for a long time but with reduced effectiveness. Receipting the symptoms of the virus is a tort and plant the cavid specific provides provide and the fill and the cavid specific provides and balance in a direct to provide a provide and the fill and the cavid specific provides and the cavid specific provides the tort as a similar on the direct provide and provides and the fill and the cavid specific provides the direct provides the provide of directiveness. The explanation of the virus is a balance of directiveness. The directiveness is the provide that the virus is specific directiveness in a directive tort and similar in diversite provides directiveness. The adversite provide that the virus is point to directive the provides of the directive provides that the directiveness is the directiveness. The adversite the directiveness is the directiveness is the directiveness is the directiveness in the dinterectiveness is the directiveness is the dis	10.1126/science.adg7879	
S. Tripathy, S. Tripathy, Singh, R., Ray, M.	ChatGPT is fun, but not an author Natural Language Processing for Canol 19 Can ChatGPT be trusted to provide reliable estimates?	Science Procedia Comput Sci	2023	218	6630	1335- 1341 01. Mrz	Nip, cord-19, dislogue system, sequence-to- sequence, transformer Artificial intelligence (AI), ethics, knowledge, transparency, trust	In less than 2 months, the artificial intelligence (A) program ChatGPT has become a cultural sensation. It is freely sccressible through and protect create the table of the tody's developer, Qennil. The program which automatical proteins that based on written promoths so popular that is Sikely to be at capacity right normal "i you attempt to use I. When you do get through, ChatGPT provides endes entertainment. Lakel it to rewrite the first scene of the clasic American play Death of a Saleman, but to feature Princes Bias from the animated move Froera as the multi chatacter intead of Willy Jonam. The couply was an amusing conversation in which Bias-who has come home from a tough aby of selling is told by her son tappy. "Come on, Mom. Toxic's Bias from from. You have a topolary of selling is told by her son tappy. "Come on, Mom. Toxic's Bias from from a back who the Covid's Bias from from a tough aby of selling is told by her son tappy. "Come on, Mom. Toxic's Bias from from a back who the Covid's Bias from frough classical and sections." The sense and washes and the Covid's Bias from from a south aby of selling is told by her son tappy. "Come on, Mom. Toxic's Bias from from abusk who the Covid's Bias from frout a study able as a certainly fun, bias you have been taken to the sense and scalema." The world was taken back who the Covid's Bias from frough East and Bias from the sense and scalema. Toxic Bias from from a south abusk of the forthermes. Recogniting the syngtoms of the virus is sensatil an order to provide proper transment for the virus. You ling hospitals for consultation becomes guite difficult when people are supposed to maintain social distanting. Recently mean antework generative models that take the required Covid specific knowledge to develop a Covid consulting applice transments for the virus simplify a lange to the specific and bias develop a Covid consulting system makes them endical to be covide and the set intervirus generative models that take the required Covid specific knowledge to develop a	10.1126/science.adg7879 10.1016/j.procs.2023.01.112 10.1080/08989621.2023.2179919	
 Frigathy, Singh, R., Ray, M. P. Tsigaris, Tokera da Silva, I. A. Tuomi, A. Tuomi, A. Tuomi, P. P. Silva, M. 	OutGPT is fun, but not an author Natural Language Processing for Covid-19 Consulting System Can ChatGPT be trusted to provide reliabent extimates? Intelligent in automation in hospitality: exploring the extimates?	Science Procedia Comput Sci Account Res Journal of Hospitality and Tourism Insights	2023 2023 2023 2023	218	6630	01. Mrz	Nip, cord-19, dialogue system, acquence-to- sequence, transformer ethics, knowledge, transparency, trust Artificial intelligence (Al), ethics, knowledge, transparency, trust Artificial intelligence, Chatbot, Conversational agent, Fist principle, Food service, intelligent automation, Service robot	In less than 2 months, the artificial intelligence (A) program ChatGPT has become a cultural sensation. It is freely accessible through and point creates the through the tool's develope Q ends. The program which automatical proteins that based on written promotes is opposited that is likely to be a "capacity right norms" if you attempt to use I. When you do get through, ChatGPT provides endes entertainment. Lakel it to rewrite the first scene of the clasic American play Death of a Steman, but to feature Princes Bias from the animated more from a tough any of reling; is told by her on happy, "Come on, Mom. You're Bia form from. You're bias from the nimated more from a tough any of reling; is told by her on happy, "Come on, Mom. You're Bias from from, You have to point of the class channels and the scenario from the singer and the scenario. You're unitophathy is a certain by function there are serious implications to generative Al program like ChatGPT in clience and scademia. The work is generatine and were an que the sequence of the visus is sensatil an order to provide proper treatment for the visus, but the visus Bias into a final the sense and scademia. The visus Bias in all or develop a Could and the sense and academia. The solution of the visus Bias indeveloping that the visus Bias indeveloping of docts we have proposed a closel consulting system maks the medical horolegic and the visus Bias indeveloping that the visus Bias Bias Bias Bias Bias Bias Bias Bia	10.1126/science.adg7879 10.1016/j.procs.2023.01.112 10.1080/08989621.2023.2179919 10.1108/JHTI-07-2021-0175	https://www.scopus.com/inward/record.uir/teid-2 12.0.45118970668&doi=10.1108%21/111-07-201- 01758.partner10=408md5=171980754ba1649848 e1989a51aa517
 Frigathy, Ray, M. P. Tsigari, R., Ray, M. P. Tsigari, R., Ray, M. P. Tsigari, A., A Tuoni, A Acendo, M. A. Tuoni, A Acendo, M. Solema, S., Rogi, R., Rogi, Rogi, R., Rogi, Rogi, R., Rogi, Rogi, R., R	OhatGPT is fun, but not an author Natural Language Processing for Cond-19 Cond ChatGPT be trusted for Cond-19 Cond ChatGPT be trusted for cond-19 Cond ChatGPT be estimates? Intelligent automatability of frontline food service tasks	Science Procedia Comput Sci Sci Account Res Journal of Tourism Insights Nature	2023 2023 2023 2023 2023	379 238 6 634	6630 1 7947	1335- 1341 01. Mrz 151-173	Nip, corid-19, dialogue system, sequence to sequence, transformer ethics, knowledge, transparency, trust Artificial intelligence (Ali), ethics, knowledge, transparency, trust Artificial intelligence, Chatbot Conversational associations, first principle, food service, intelligent automation, Service robot	In less than 2 months, the artificial intelligence (A) program ChatGPT has become a cultural sensation. It is feasly seconsible through and point oreates the through, ChatGPT provides may born the tory of a develope A. (If you attend to use I). When you depend through, ChatGPT provides index intertainment. Laskel it to rewrite the first scene of the clasic American play Death of a Steram, but to feature Princes Elsa from the animated move Freera as the main character inteads of Wills Jonam. The output was an amusing conversation in which Elsa-who has come home from a tough day of selling-is told by there on tappy. "Come on, Mom. You'e Elso from Freen You'e has the other on tappy. "Come on, Mom. You'e Elso from Freen You have its powers and you're a quere. You'e using ophanic acceleration. The version implications for generative Al program, like ChatGPT in culters: a discleration. The bene taken the second was taken and was the theory of Cold 20 partomic hit in the varia sign of the second was taken and the other of Cold 20 partomic hit in the works is second in order to provide proper transments of the virus. Jour the virus second in order to provide proper transment with is executed in a discleration. There bene taken to the other to provide proper transment for the virus. You'into the posterist method was the cold cold 20 partomic hit in the shores in generative models that take the required CoVid specific knowledge to develop a CoVid consulting system make the direct by reactific and the hore to provide proper transment for the virus. You thing to patient's direct by a potenties that the second and the second second as a direct direct direct direct and a limited number of discrets we have proposed a CoVid Consulting system make the direct to provide generative media. This system makes the direct to provide generative media. This system makes the direct to provide generative media. This system makes the direct to provide generative media. This system makes the direct to provide generative media. This system m	10.1126/science.adg7879 10.1016/j.procs.2023.01.112 10.1080/089996521.2013.2179919 10.1080/049996521.2013.2179919 10.1038/s41586-023-00288-7	https://www.scopus.com/inward/record.uir/heid-2- s2.0.45118970658.6doi-10.1105%21/111-07-021- 01758.partner/D=408.md5=171980754ba1649848 e1989a51aa577

J. P. Wang, Tanes-Ehle, Z.	Examining the Effects of Conversational Chatbots on Changing Conspiracy Beliefs about Science: The Paradox of Interactivity	JOURNAL OF BROADCASTING & ELECTRONIC MEDIA	2023	67	1	68-89	PERSUASION, HEALTH, NEED, RESISTANCE, CLOSURE, SCALE	Congring, beliefs are commonly seen during times of uncertainty. This study asamined whether a chalabot offering counter- congrings in plormation can mitigate concerpts beliefs and there of chalabot emography on its effectiveness. We conducted an online segmentent in two different contexts (climate change vs. Covid-519) (10-139). The results showed that as for Covid-19 participants who interacted with the change beliefs expression showed free dread beliefs of the state of the constraints of the state of the constraints of the state of the state of the constraints of the state of the	10.1080/08838151.2022.2153842	
T. Wang, Qin, Y., Deng, D., Wei, J., Zha, Z., Y., Fan, Y., Chen, T., Sun, H., Liu, L., Wei, S., Yin, S.	An Energy- Efficient Transformer Processor Exploiting Dynamic Weak Relevances in Global Attention	IEEE Journal of Solid-State Circuits	2023	36	1	227-242	Approximate computing, our of-order computing, processor, self-attention, seculating, transformer, Acomputer hardwirer, Energy differenz, Energy utilization, Green computing, Natural Ingruge processing systems, Sports, Computational modelling, Out of order, Technological innovation, Convolution	Intrastores - saked modes actively (Even there there includes as in many atricital interligence (pd) (asks, obliget interling conventional convolution nearly networks (EVM) from thank and any ange processing (NUP) to compare vision (CA). There is used in the self-attention mechanism that provide a global rather than local receptore field as CMXs. Deeple Its superiority, the global- iese leff attention constants. Too Brone experisions than CMV that data can be derived vision (CA). The existing CMV received global leff attention involves massive naturally existent vessibly related taken (WE T-deexe) due to the receivant constraints in human longuages or images. There WE Tricking generate zero on dense- variaterion results that introduce neargy consumption bottleneck, redundant computations, and hardwave under-atilization issues, making it challenging to arbitering consumption bottleneck, redundant computations, and hardwave under-atilization issues, making it challenging to arbitering consumption bottleneck, redundant computations, and hardwave under-atilization issues, making it challenging to arbitering energy eff. Intervent by adaptively computing the sum1 values approximately with computing the NAT-Takens (NAQ) energy for WR-Tokens by adaptively computing the sum 1 values approximately with computing the NAT-Takens (NAQ) exception the toch approprised at attention. This is not colored Se time computing the Issue values as activ- science for the conception prior of self attention. This is not colored Se time computing taketaria increases hardware utilization for near-are values by verodering the paramits to dowelial two operations into one multiplication. Taking called in a 28 mon CMOS technology, the proposed processor occupies an area of SE. 27. March Men exalted with a 59 Set of 30 sprovimate computing for the generative per-trained transformer 2 (GPT-2) model, the park energy efficient of a 126 approximate processor, it reduces energy by 4.57x and offers 3.73x speedup. © 2022 IEEE		mip.j./www.sopo.com/mwar/ecoul.inese- 2.12- 3514457048doi=10.1109K20552.2022.3213521 Agartene10-406md5-13e02007707s01858/d5e64 0507ee2
R. Weeks, Sangha, P., Cooper, L., Sedoc, J., White, S., Gretz, S., Toledo, A., Lahav, D., Hartner, A. M., Martin, N. M., Lee, J., H., Slonim, N., Bar-Zeev, N.	Usability and Corbiblity and COVID-19 Vaccine Charlos for Young Adults and Health Worled States: Formative Mixed Methods Study	Joint fum Factors	2023	10		e40533	Consistent of the strong construction of the strong service of the strong of the strong of the service of the strong of the strong of the strange of the strong of the strong of the hesitancy	Backbackbords. The UA bit is adjustment classes taken is in common locating trading to the second se	10/136/40533	
Z. Wei, Chen, Y., Zhao, Q., Zhau, P., Zhou, L., Ren, J., Piao, Y., Qiu, B., Xie, X., Wang, S., Liu, J., Zhang, D., Kadosh, R. C., Zhang, X.	Implicit Perception of Differences between NLP- Produced and Human- Produced Language in the Mentalizing Network	Adv Sci (Weinh)	2023			e220399 0	human language, implicit perception, mentalizing network, natural language processing	Natural language processing (NUP) is central to the communication with matchine and anong oursches, and NUP research field has long ought to produce human-quality language. Identification of informative critics for measuring the Produced language quality will support development of ever-better NUP tools. The authors hypothesize that mentalizing network neural activity may be used to distinguish NUP produced language from human-produced language, we notif cases where human luigts cannot subjectively distinguish the language source. Using the social chatbots Gogde Meena in English and Microsoft Xiaolex in Chinese to generate NUP-produced language, behaviorit tests with neured attraining of personality prevended from Attraine charts is larger than for human charts are conducted, suggesting that chatbot language usage patterns are not stable. Using an activity in the mentalizing network including the DMPCE and TP in response to chatbot versus human dust stat cannot be distinguished subjectively are conducted. This study illustrates aromising empirical bas for measuring the quality of NUP- produced language. adding a judge's implicit perception as an additional criterion.	10.1002/advs.202203990	
W. Wiasak, Zwaneburg, S. P., Paton, C.	Supporting Autonomous Motivation for Physical Activity With Chathoss During the COVID-19 Pandemic: Fectorial Experiment	JMIR Form Res	2023	7		e38500	Covid-19, autonomous motivation, chatots, factorial experiment, mobile phone, motivation physical activity, self- determination theory	BACKGROUPD: Although physical activity can mitigate diesse trajectories and improve and sustain mental health, many people have become less physically active during the COUPD 3 genetic. Personal information technology, such as activity trackers and chatocls, can technically converse with people and possibly enhance their autonomous motivation to engage in physical activity. The literature on behavior charge techniques (ECI) and add chatematication technology, such as activity trackers that can be leveraged in the design of these technologies, however, it remains under how this can be achieved. CBECTOPE to that the leveraged in the design of these technologies, however, it remains under how this can be achieved. CBECTOPE second, we aimed to evaluate whether the use of the system improves the autonomous motivation for waiking and the secondard BCE and Google FI (Google LIV), we implemented the various versions of the chatter by technologies and warious BCE (mightermatiations. METHODS). We developed a chatter by activity that in 20 participants who used this system over the course of 3 week), to oversing with a chatter of autonomous motivation (free waiking and the satisfaction, inputical activity levels, and molesulos. HSUIDIS: The use of the chattor system was satisfactory, and on warrage, the participants indicated that the version were achieven with a target achieven satisfactory, and on warrage, the participants indicated that the prevised were achieven with a home work of a satisfactory. The varians of this system was associated that of a satisfactory, and on warrage, the participants indicated that the prevised were achieven with a site and chattor or additional that they avaid and were fixed that and the solution of the satisfactory, and on warrage, the participants indicated that the movel and warrage. The majority through that a more advanced of that that or advanced that the variant and were fixed that an used that achieved that achatter of the participants indicated that the variant an	10.2196/38500	
B. Yang, Sun, Y. Q., Shen, X. L.	Understanding Al-based customer service resistance: A perspective of defective Al features and tri- dimensional distrusting beliefs	INFORMATION PROCESSING & MANAGEMENT	2023	60	3		Artificial intelligence. Castomer service. Empathy. Emotional intelligence. Castomer resistance, USER RESISTANCE, INFORMATION- TECHNOLOGY. RECOMMENDATION AGENTS, PRODUCT RECOMMENDATION AGENTS, PSYCHOLOGICAL CONTRACT, PSYCHOLOGICAL CONTRACT, PSYCHOLOGICAL CONTRACT, ONDERATING ROLE, SYSTEM QUALITY	Communicating with customers through Al-based shatbsis in customer service (AKC) has become increasingly popular for many companies. However, in actual service enouters, ASC seeme defective and in customy accepted by customers. Occasionaly it is even existed. This study aims to investigate such customer resistance. In addition to two cognition-centered Al features (i.e., irrelevant and based information) discussed in prior study. It is using propose that lack of engaths in another key feature of defective AI (i.e., in its emotional dimension) and investigates the underlying mechanism of empathy. Specifically, this taydy opposite three pathways in which empathy functions are alkeding. A survey was conducted to set our hypotheses, and the results suggest that lack of empathy has three effects on customer resistance: direct, indirect, and moderating. Finally, theoretical contributions and practical implications are discussed.	10.1016/j.jpm.2022.103257	
S. J. H. Yang, Ogata, H., Matsui, T.	Guest Editorial: Human-centered Al in Education: Augment Human Intelligence with Machine Intelligence	EDUCATIONAL TECHNOLOGY & SOCIETY	2023	26	1	95-98	Human-centered AJ, AI in education, Humanity, Sustainable education, Future learning, PRECISION EDUCATION	This special issue focus on underlying research with the use of human-centered AI (Artificial Intelligenci), where the new design methods and tools can be leveraged and evaluated, hope to advance A research, education, policy, and practice to improve the human condition in education. This special issue intends to advance a research education, policy, and practice to improve the human condition in education. This special issue intends to advance an in-depth dialogue between researchers with diverse the human condition in education. This special scene intends to advance an in-depth dialogue between researchers could enhance the advance of the advance the advance and the intendicion. All integrations are advanced and the interdiction this special issue human-centered AI in education. All in largue diversion (n. bit learning anhifts), calcular ansoning, and the clinical workplace, intelligent education robots. All risk framework, intelligent course recommendation, education rhambot, and intelligent assessment. Together with the ten papers, we adheve a better understanding of the application of human-centered AI in education.	10.30191/ETS.202301_26(1).0007	
T. C. Yang, Chen, J. H.	Pre-service teachers' perceptions and intentions regarding the use of chatbots through statistical and lag sequential analysis	Computers and Education: Artificial Intelligence	2023	4			Educational chatbot, Learning behavior analysis, Pre-service teacher, Technology enhanced learning	Chatebos provide unique interactions with compatible learning system features, improving the limitations of current learning systems. Educational databots are usen as the future of eth-onlogy integration in the field of education. The success and usefulness of hatbots in the educational setting are highly dependent on teacher's beliefs regarding their efficacy, yet most research focusso on the effects on studenties l'learning. Only set valuels have investigated teacher's beliefs regarding these efficacy, yet most chatbots, which is considered an important issue. Dwring to teacher's beliefs having been transformed from their pre-service teacher training this study used quantifier lea, questionnianis, qualitable (it., lawrelew), and enforces basel (it., behavioral avalysis) methods to investigate pre-service teacher's learning garcegtions and interations about using databots for teachers' propensity to use chatbots, but the behavioral analysis uncovered some specific intention for using databots. We further discuss these finding to provide recommendations for the Nutre development of chatbots use in education. © 2022 The Authors'	10.1016/j.caeai.2022.100119	https://www.scopus.com/inward/record_un?eid=2- 2-0 8542671054806-10.1016%2f,caesi.2022.10011 8544571054806-10.1016%2f,caesi.2022.1001 95424571054806-10.2016%2f,caesi.2022.1001 9f12c549
N. S. L. Yeo- Teh, Tang, B. L	Letter to editor: NLP systems such as ChatGPT cannot be listed as an author because these cannot fulfill widely adopted authorship criteria	Account Res	2023			01. Mra	Authorship, ChatGPT, Generative AI, ICMJE guidelines	This list text to the editor suggest adding a technical point to the new editorial policy exponented by Houseist et al. on the monitoring disclosure of any use of answire language procurations (ICIP) potence, or generative AL is writing schularly publications. Such AI systems should naturally also be forbidden from being named as actions, because they would not have fulfilled prevailing authorship guidelines (such as the widely adopted ICMIE authorship criteria).	10.1080/08989621.2023.2177160	

H. Yildiz Durak	Conversational agent-based guidance: examining the effect of chatbot usage frequency and satisfaction on visual design self-efficacy, engagement, satisfaction, and learner autonomy	Education and Information Technologies	2023	28	:	1 471-488	Chatbots, Engagement, Guidance, Learner autonomy, Satisfaction, Visual design self efficacy	Databotis and provide grant particular to effectively support interpretorated communication and interpretion. Obstatots can provide grant opportunities in inducation. The use of chalates in education can be used to employ interpretor entrolote, is provide harmers information and different types of information granticing provide provide program opportune tendhole, is appretores by recommission more interactions than traditional tending particing provide in this context. The proper of this studys, is to apply chalabot technology as a guidance tool in educational environments and to model its effects on visual design and i- efficave, magnements, substation, and there are automore that the of the process. The participants of the study are 56 university students. In this study, etais were collected with 6 different calles, Data were analyzed using the variance-based structural equation and with the particular last square method. As a result of the study, runs 63 university students. In this student substational effectives, Chabot uses satisfaction pointively affects some aspects of course satisfaction. Table higher visual design al-efficave, Chabot uses assistication pointively affects some aspects of course usisfaction. Chabot uses as statisfaction affects ange-methoders. The effects of the study results in terms of research and practice were discussed. © 2022, The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature.	10.1007/s10639-022-11149-7	http://www.stops.com/mwat/necod unitiets/ 20.451332792828doi=10.1007/K2h10639-022- 1149- 78.gartner/1-408.md5=c9bcaee19243860b7c95842 addfbb086
C.S.Yu, Hsu, M. H., Wang, Y. C., You, Y. J.	Designing a Chatbot for Helping Parenting Practice	Applied Sciences (Switzerland)	2023	13		3	chathot, infancy health education, LINE, parenting	In today's society, many families do not have children due to various reasons. The reasons include the pressure brought by childrare, and that double-income families to onchave these to raise children, segretarily movice parents were would rest to solve problems. Through the questionninies collected by our study, we found that most movice parents use of NANDOT when their childnen cry, thus, we were used a baby's cry as an example here. When parents face a baby's cry, they can tap the buttom "burst into tears". The chattoot will immediately tell parents how to solve the problem. The ababy's cry, they can tap the buttom "burst into tears". The chattoot will immediately tell parents how to solve the problem. The ababy's cry, they can tap the buttom "burst into tears". The chattoot will immediately tell parents how to solve the problem. The ababy's cry, they can tap the buttom "burst into tears". The chattoot will immediately tell parents how to solve the problem. The ababy's cry, they can tap the buttom "burst into tears". The chattoot will immediately tell parents how to solve the problem. The ababy's cry, they can tap the buttom "burst" to the solve the problem control to alleviate parents' incolles at work and parenting. It also reduce the parents record the problems reconstreted and wind solve. The parent the code to problem control to alleviate the tear to thill in a questionnaite, at an appropriate time to improve the system. After a preliminary study, we found that INFANDOT can solve not the needed pit this taxis usis (tasking INFANDOT can be detected by an advected by an advected by a divected in this study met the needs of its users and can help users improve their parenting troubles. This study also has positive effects and contributions to society: _ After question. All Andot the users are satisfied provided by the robot, which can effectively improve the user's parenting problems. Jake and the users are satisfied with positive ensures. There satisfied and the INFANDOT, users feel recogni	10.3390/App13031793	https://www.scopus.com/inward/record un?dei2- 2:0- 85147958218doi-10.3390%2fapp130317938part ner01=408md5-e3a44C51da02393ed4f28cfa3fd81 86
H. Zeavin	Melancholic media: virtual reality, traumatic loss, and magic	Media, Culture and Society	2023	45		1 181-190	melancholic media, mourning and melancholia, racialized grief, spiritual media, the uncanny, trauma and media, virtual reality	This essay concerns itself with the status of 'melancholic media', or digital objects in psychic life after trauma on the grounds of three very different cases. Replika (a chattor with avata), Deep Notalägi (the reanimating of family photographi), and Not the Ondy One (an concomencial virtual agent). [If O retrue, trauma is more than mid can endure; these surgestates both suggest concretization that which is being endured. Instead of directly confronting trauma and its overwhelm, these users might commiptently reportione. There discuss the meanning these human and non-human interactions via the lens of the uncanny, I will return to the status of objects as melancholic media to think about psychic states in relationibility to trauma and its mutuit-temporal aftermath . I trouble what these digital partial revivilications might do to and for psyches. D The Author(s) 2022.	10.1177/01634437221126062	http://www.scopus.com/inward/record.uri?eids- 2.20- 85400325708.doi=10.1177%21016344372211260 628.partnerfD=408.md5=831bb360409c235360378 cc3c61e35ff
J. Zhang, Zhu, Y., Wu, J., Yu-Buck, G. F.	A natural apology is sincere: Understanding chatbots' performance in symbolic recovery	International Journal of Hospitality Management	2023	108			Chatbots, Emotional competence, Human-robot interaction, Lab phelif, Symbolic recovery	Although chattlots have been videly used in dealing with service complaints, knowledge about the recovery performance of chattosts is limited. Toxining upon Jup belief and emotional complement theory, his research explores symbolic recovery performances of chattosts in two experimental studies. The results show that symbolic recovery from chattosts leads to lower customer satisfaction than symbolic recovery from human employees due to the layelief that chattosts is demotional competence. Perceived naturalizes and perceived sincerity play a sequential mediating role. Customers precisive chattost' symbolic recovery to be less natural than that of human employees. Less natural receivery is perceived to be less sincer, that or durant employees. Less natural recovery is perceived to be less sincers than the distingence. This research employees less to the lay development on symbolic recovery, and chattost, providing information for how companies can effectively use chattost to make an appropriate recovery. a 0.2022 Elsevier Ltd 2022.	10.1016/j.ijhm.2022.103387	https://www.scoput.com/inward/record_uir?eids2- 2.0- 85141981828840-10.1016/k2f.jijm.2022.10387 & gartner0-0-408.md5-00825501b496b5db5772170f 79710f8e
J. M. Zhang, Zhu, Y. M., Wu, J. F., Yu- Buck, G. F.	A natural apology is sincere: Understanding chatbots? performance in symbolic recovery	INTERNATIONAL JOURNAL OF HOSPITALITY MANAGEMENT	2023	108			Chatbots, Symbolic recovery, Lay belief, Emotional competence, Human-robot interaction, ACCESSIBILITY- DIAGNOSTICITY, CUSTOMER SATISFACTION, SERVICE FAILURES, PERCEPTION, ROBOTS, INTELLIGENCE, EXPERIENCES, EMPLOYEES, EMPATHY	Although charbots have been widely used in dealing with service complaints, knowledge about the recovery performance of charbots is limited. Crawing upon lay belief and emotional competence theory, this research explores symbolic recovery performance of charbots in two experimental studies. The recurs lists show that symbolic recovery from charbots leads to lower customer satisfaction than symbolic recovery from human employees due to the lay belief that charbots leads to lower competence. Percever due attachmiss and perceived sincertly pills vaceuration intelligence and that the symbolic recovery to be less natural than that of human employees. Less natural recovery is perceived to be less sincer, thus decreasing customer satisfaction with the recovery. Changing perceived against perceived attachmiss and perceived customers satisfaction with charbots' symbolic recovery. This research enriches theoretical research on symbolic recovery and charbots, providing information for how companies can effectively use charbots to make an appropriate recovery.	10.1016/j.jhm.2022.103387	
T. Zhao, Li, G., Song, Y., Wang, Y., Chen, Y., Yang, J.	A multi-scenario text generation method based on meta reinforcement learning	Pattern Recognition Letters	2023	165		47-54	Meta-reinforcement learning, Multi-scenaric, Natural language processing, Reinforcement learning, Text generation, Learning, Stems, algorithms, Learning systems, Maximum likehing, Stems, Generation method, Language processing, Systik scenario, Natural language, Reinforcement learnings, Text generations	Multi-scanario text generation is an essential taxi in natural larguage generation because of the multi-scene interloced poperty of rai-sub-dig ordenets. Tracitotian larendos typicali train ta multi-scene tot set generation models based on maximum likelihood estimation, which may suffer from the problem of expource bias. Reinforcement learning (RL) based text generation methods could mitigate the expounce bias problem to some estert. However, the RL-based text, To address this problem, in this poper, we propose a multi-scenario text generation method based on method in sub-generation tasks, which cannot be straightforwardly generalized to new scenario tasks. To address this problem, in this poper, we propose a multi-scenario method based on meta 81, McHaRL-10, which inglementes the method of mode-agnosit, meta-learning (MAML) is the framework of RL-based text generation. The proposed MetARL-TG method first learns to the initial parameters from multiple taring tasks, the first-channels mit the target task. Thus, the effectiveness and generalization capability of the proposed method are demonstrated for eight scenarios through English text datasets. © 2022	10.1016/; patrec 2022.11.031	https://www.scoput.com/imward/record unifelds2- 2-0- 851455521378.doi=10.1016%2f.patrec.2022.11.03 18.patrner/10-408.md5-8b29204e3a7c80217019e50 0/71e0d35
X. L. Zhao, Chen, L., Jin, Y. C., Zhang, X. Z.	Comparing button-based chatbots with webpages for presenting fact- checking results: A case study of health information	INFORMATION PROCESSING & MANAGEMENT	2023	60		2	Health misinformation, Chatbot, User interface, Fact- checking, Conversational agent, User study, PERCEIVED USEFULNESS, CONTINUED INFLUENCE, VISUAL COMPLEXITY, USER ACCEPTANCE, COGNITIVE LOAD, PUBLIC-HEALTH, MISINFORMATION, TECHNOLOGY, IMPACT, PERFORMANCE	The unprecedented proliferation of online health misinformation poses a potential threat to public health. In recent times, several fact-theoring organizations have adopted chabots to present fact-checking results. Neverse, it is unclear whether duatous are more appropriate than traditional fact-checking weaklishes for presenting inter-density results. As fact-checking responsite than traditional fact-checking weaklishes for presenting inter-density results. As fact-checking responsite than tradition uses user programo in diract-checking weaklishes to presenting fact-checking results. As fact-checking responsite to an tradition uses are program on diract-checking weaklishes to highly perceived are directing in our study. We conducted a 2 (Interaction type: webpage vs. chatbol) x 2 (Repertise cue non-highlighted) between-abylect based to highly perceived weak of the study that the drabato leads to highly perceived are observed with the traditional study and that the drabato leads to highly perceived expectally when there experiment (IV as 00). The results have that the drabato leads to highly perceived expectally when there experiment (IV as 00). The results have study that the drabato leads to highly perceived expectally when there experiment (IV as 00). The results have study that the drabato leads to be develow user interitor to use, expectally when there experiment (IV as the perceived study and the tot drabato leads to experiment content and several design implications for the creation of an effective tool to fact-check health information.	10.1016/j.j.pm.2022.103203	
Z. Zhao, Zhang, L., Lian, X., Gao, L., Lv, H., Shi, L.	RegGen: Keywords-Driven Software , Requirements Generation	Mathematics	2023	11		2	knowledge injection, requirements syntax, software requirements generation	Software requirements specification is undoubtedly oritical for the whole software like-cycle. Currently, writing software requirements specifications primarily depends on human work. Although massive studies have been proposed to speed up the process via proposing advanced eliotation and analysis techniques, It is all at mic-consumption and analysis techniques, It is all at mic-consumption and analysis techniques, It is all at mic-consumption approach, tameed to take domain howeledge at advances information in the consideration. In his paper, we propose an approach, named ReqGen, which an provide further assistance by automatically generating natural language requirements specifications based on certain given kyevids. Specifically, regification soft of the critical steps. First, resports-oriented howeledge is selected from the domain ontology and is injected into the basis. Unlifed pre-trained Language Model [UNLN] for domain fine-turing. Second, a cogn mechanism is integrated to be sume the occurrence diversords in the generical statements. Finally, a requirements-syntax-constrained decoding is designed to dose the semantic and syntax distance between the candidate and reference specification. Experiments on two public datasets from different groups and domains show that RegGen outperform sis popular natural language generation approaches with respect to the hard constraint of keywords' (phrasef) inclusion, BLEU, ROUGE, and syntax, compliance. We believe that RegGen can promote the efficiency and intelligence of specifying software requirements. © 2023 by the authors.	10.3390/math11020332	https://www.scopus.com/inward/record.ui?i8d=2- 2:10- 8:1467c1492&doi=10.3390%2/math11020332&pa 1rente=1=080md5=cba56253680174cad52a1757887 57500
D. Zhu, Lappas, T., Rachidi, T.	Commentary generation for financial markets	EXPERT SYSTEMS WITH APPLICATIONS	2023	211			NLP, NLG, Text mining, Summarization, Financial markets, NATURAL- LANGUAGE GENERATION, OF- THE-ART, LINGUISTIC DESCRIPTIONS, AUTOMATIC- GENERATION	Financial markets are based on the daily movements of thousands of tradable assets, such as stocks, resulting in billion-dollar trade volumes and affecting investors and companies around the globe. In this volatile and high-takes environment, financial- servic films employ analysis to create compact market commentaties that serves a ling/thul summaires with key prices of information. In this work, we attempt to automate this process by formally defining and algorithmically solving the Market Commentary Generation (MCG) problem in addition to availy time and cost via automation, our approach trakes a number of contributions that differentiate it from previous related work. These include the consideration of thousands of underlying time series; the ability to commentary evenents of the finance domains, which prevent thus of blacks and the ability to deliver high quality commentary even in the presence of small and unlabeled historical datasets. Finally, our approach takes into produce language that violates key rules and regulations. We compare our work against competitive baselines via an evaluation that includes both qualitative and quantitative experiments.	10.1016/j.eswa2022.118364	
C. Zielinski, Winker, M., Aggarwal, R., Ferris, L., Heinemann, M., Lapeña, J. F., Pai, S., Ing, E., Citrome, L.	Chatbots, ChatGPT, and , Scholarly Manuscripts: WAME Recommendatio ns on ChatGPT and Chatbots in Relation to Scholarly Publications	Open Access Macedonian Journal of Medical Sciences	2023	11		83-86	article, chatbot, editor, human	Journals have begun to publish papers, in which chanbdot such as ChatGPT are shown as coauthors. The following WAME recommendation are intended to inform editors and help then develop paties regraring chatbots for their journals, to help authors understand how use of chatbots might be attributed in their work, and address the need for all journal editors to have access manuscript screening tools. In this rapidly evolving field, we expect these recommendations to evolve as well.	10.3889/oamjms 2023.11502	https://www.embase.com/szarch/results/subsction viewewcardkiel.coz/2026/5018/from-export. http://dx.doi.org/10.3889/oamjms.2023.11502
A. Zogaj, Mähner, P. M., Yang, L., Tscheulin, D. K.	It's a Match! The effects of chatbot anthropomorphi zation and chatbot gender on consumer behavior	Journal of Business Research	2023	155			Anthropomorphism, Chatbot, Gender effects, Purchase intention, Self-concept, Self- congruence	Datbots are increasingly used as substitutes for human service agents in online shops. This has led researchers to analyze how databot dharacteristics influence consume responses. However, while the relevance of chattot characteristics has been examined, to date, consumer's personalises have remained unalisted in it me research on this innovative mode of datile support. Therefore, this study aims to understand how the interaction of consumer characteristics and datbot characteristics influences consumer behavior lengths use focus on how the interaction of consumer characteristics and datbot characteristics influences consume behavior depends on perceived sife conjugence between consumers and a chattor, which can be exceeded by anthropomorphizing chatbots and giving them the "right" gender. Subsequently, based on multiple studies, we empirically test the hypothese considering made, length, and non-binary commens. Our results demonstrate the relevance of both chatbot anthropomorphization and chatbot gender. Ø 2022 Elsevier Inc.	10.1016/j.jbusres.2022.113412	http://www.scopus.com/inward/record.un?eid=2- 2.20- 531434292668doi=10.1016%2fi,jburres.2022.1134 128.partnert0=408md5=221690869f1157878100407 48633doi301