ADVANTAGES AND DRAWBACKS OF ChatGPT IN THE CONTEXT OF DRAFTING SCHOLARLY ARTICLES

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Abstract
Incorporating Artificial Intelligence (AI), particularly ChatGPT, in academic endeavors has attracted significant interest due to its ability to optimize procedures and enhance human capacities. ChatGPT serves as an informed partner, assisting researchers in doing literature reviews, generating ideas, and even composing scholarly articles. Nevertheless, this revolutionary technology gives rise to ethical considerations in scientific investigation, namely authorship, information-data privacy, and bias. The article thoroughly examines the advantages and disadvantages of using ChatGPT for academic purposes. The benefits are seen in its effectiveness in retrieving information, surpassing language obstacles, boosting the synthesis of literature, easing the production of ideas, and assisting in the outlining of manuscripts. On the other hand, the complicated nature of using ChatGPT in scholarly activities is emphasized by worries about scientific integrity, the possibility of spreading disinformation, excessive dependence, and security and privacy issues. Finding a middle ground between utilizing the advantages of ChatGPT and maintaining academic integrity is crucial. Analyzing the dynamics will be crucial in navigating the changing junction of AI and research activities.

Keywords: Artificial intelligence, Information science, Digital health, Ethics in publishing


INTRODUCTION
Artificial Intelligence (AI) is an expansive domain of computer science that centers on developing computers with the ability to do activities that usually necessitate human intelligence. The tasks encompassed in this domain involve acquiring knowledge, logical thinking, resolving complex issues, interpreting sensory information, identifying and comprehending spoken language, as well as grasping the meaning of natural language. Machine learning, a subfield of AI, allows systems to enhance their performance on particular tasks by leveraging experience and data without the need for explicit programming [1, 2].
A notable progress in AI involves the creation of natural language processing (NLP) models. NLP enables machines to comprehend, analyze, and produce text that resembles human language, hence facilitating the potential for more authentic interactions between humans and machines. OpenAI’s GPT (Generative Pre-trained Transformer) models are leading the way in improvements in NLP [3, 4]. ChatGPT originates from the domain of NLP, a branch of AI that equips machines with the ability to comprehend and produce human language. The motivation behind creating ChatGPT was to design an advanced and adaptable AI language model to assist in various tasks, such as creating texts, translation, and information analytics [5, 6].

Incorporating AI into scholarly activities has gained substantial interest in recent years, offering the potential to simplify activities and enhance human talents. ChatGPT’s capacity to comprehend and produce writing that resembles human language offers an innovative way to enhance scholastic collaboration. ChatGPT functions as a knowledgeable partner for researchers and academics, aiding in tasks such as doing reviews of literature, generating ideas, and even composing publications [7].

The ethical implications of utilizing artificial intelligence in scientific research are examined. As AI models generate content independently, concerns around authorship, privacy of data, and bias become prominent. In response to these concerns, the scientific community is actively working towards creating norms and ethical frameworks to ensure the proper utilization of AI technologies [8].

Considering the likelihood of ChatGPT being frequently utilized across various domains, it is essential for the research community to actively participate in a thorough discourse regarding the possible uses, advantages, risks, and constraints of these tools. Hence, this article examines the positive and negative aspects of utilizing ChatGPT in academic activities. Furthermore, it seeks to explore the potential and results of utilizing ChatGPT in the context of academic writing.

ADVANTAGES OF ChatGPT IN ACADEMIC ACTIVITIES

**Improving information retrieval**
ChatGPT, with its robust natural language comprehension, is an effective tool for retrieving information in scholarly efforts. Researchers can ask intricate questions in search of particular information from extensive datasets and obtain accurate, contextually appropriate answers. This feature optimizes the literature review process, speeds up data extraction, and improves the overall efficiency of information collection [9].

**Eliminate the language barrier**
ChatGPT is a free-of-charge tool that can efficiently overcome the language barrier that has traditionally hindered non-English-speaking authors from reaching the same level as their native-speaking counterparts. Non-Anglophone academics can benefit from ChatGPT as it allows access to language editing services without needing payment. Individuals hailing from areas characterized by moderate to poor economic stability frequently face substantial disadvantages. ChatGPT can simplify the publishing process and reduce linguistic challenges [10].

**Encouraging literature synthesis**
In academic writing, combining knowledge from several sources is a crucial component. It is difficult to fully master the expanding academic pool and the ever-increasing number of articles. ChatGPT aids researchers in comprehending intricate topics, condensing lengthy texts, and delivering coherent synopses. This accelerates the process of synthesizing literature and provides a comprehensive comprehension of complex subjects [11].

**Facilitating the creation of ideas**
ChatGPT serves as a beneficial collaborator for scholars involved in ideation and brainstorming. It becomes an essential collaborator throughout the initial phases of academic endeavors by facilitating the generation of various viewpoints, proposing possible avenues for research, and assisting in developing hypotheses. The model’s ability to actively contribute to developing ideas promotes creativity and exploration [12].

**Design an outline**
Researchers can input data to ChatGPT and request that it generate an outline for a scientific manuscript or a different writing style. It is suggested that using such a model can help academics or students arrange their ideas for research and writing. Prompts for ChatGPT to instantly construct a draft are advised in this situation. However, for the manuscript to be usable, certain content may need to be modified by researchers or students. Furthermore, ChatGPT drafts academic papers, letting scholars rapidly and thoroughly comprehend important topics [13].
DISADVANTAGES OF ChatGPT IN ACADEMIC ACTIVITIES

Scientific integrity concerns

Although ChatGPT offers numerous benefits in scholarly activities, it also poses significant concerns. ChatGPT’s ability to generate outputs based on different prompts provided by researchers raises concerns about potential unethical utilization, as it may violate academic integrity standards. Utilizing AI to generate a response or article without declaring its use or correctly citing sources may result in a situation of plagiarism. Failure to properly attribute the sources generated by chatbots in scientific papers may lead to academic misconduct and dishonesty, negatively affecting long-term academic achievement. ChatGPT, similar to other AI models, is vulnerable to biases in its training data sets. When engaging in scholarly activities, where maintaining impartiality is of utmost importance, introducing biased content is a major concern. Researchers must be cognizant of potential biases and implement strategies to mitigate them to uphold their research’s integrity [14, 15, 16].

Incorrect information

Due to the inherent limits of ChatGPT, researchers may be exposed to the potential danger of utilizing misleading data-information generated by this innovative instrument. Several academics have highlighted the potential for ChatGPT to exhibit severe inaccuracies in the information it generates. These potential negative consequences may result in misunderstandings when individuals utilize this knowledge for academic purposes. Misinformation can arise while utilizing ChatGPT due to several factors, such as user-provided prompts or inputs, the quality of the training data, and the tool’s limits. To ensure the optimal performance and productivity of ChatGPT, it is crucial for researchers to thoroughly analyze the AI-generated responses [17, 18].

Excessive dependency on ChatGPT

Excessive dependence on ChatGPT could pose a problem. Due to the simplicity of ChatGPT, researchers can rely solely on this tool for their scholarly activities, skipping the need for analytical thinking and decision-making abilities. Utilizing ChatGPT can detrimentally affect researchers’ acquisition of crucial skills, such as analytical thinking, problem-solving, creativity, and scientific capabilities. Given the crucial role these skills play in the scientific success of researchers, utilizing ChatGPT could result in several adverse outcomes for researchers, including a dearth of uniqueness and impaired decision-making capacity [19].

Issues about security and privacy

Within the realm of academic collaboration, particularly in research domains that require caution, there are apprehensions over the security and privacy of data and personal information transmitted to ChatGPT. Researchers should take responsibility while entering information into the system, considering the potential hazards of data breaches or inadvertent disclosure of confidential information [20].

CONCLUSION

Incorporating ChatGPT into academic endeavors presents substantial promise but also entails a range of obstacles and issues to be considered. The benefits are apparent in its capacity to improve information retrieval, reduce linguistic obstacles, promote the synthesis of literature, facilitate the generation of ideas, and aid in outlining scientific work. Striking a careful equilibrium exists in utilizing ChatGPT as a beneficial instrument while upholding the fundamental ideals of academic rigor and integrity. Researchers must carefully oversee and verify the outputs, ensuring that AI-generated content adheres to ethical standards. Addressing prejudices and preventing over-dependence on ChatGPT is crucial while fostering critical human capabilities.

ChatGPT has the potential to be an excellent tool for the creation of academic publications. Moreover, this could lead to a new model in which the scientific community implements more stringent methods to govern the publication of review papers that lack critical analysis or unique insights due to the ease of creating scientific articles. In the future, the main factor for evaluating articles will likely be their innovative worth, which will significantly improve science overall.

AUTHOR CONTRIBUTIONS

Both authors substantively contributed to drafting the initial and revised versions of this review. They take full responsibility for the integrity of all aspects of the work.

CONFLICTS OF INTERESTS

Both authors have completed the ICMJE Disclosure Form (http://www.icmje.org/disclosure-of-interest/; available on request from the corresponding author). Both authors declare that there are no potential conflicts of interest.

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References


ФЫЛЫМЫ МАҚАЛАЛОРДЫ ҚУРАСТЫРУ МӘНМӘТІНІНДЕ ЧАТГΡТ-тың 
АРТЫҚШЫЛЫҚТАРЫ МЕН КЕМШІЛІКТЕРІ

Тұйындеу
Академиялық тапсырмаларды шешу мәнінде жасанды интеллекті (ЖИ), әсересе ChatGPT қоңызда процедурааларда онтайланыру және ақақ әмдеміндіктерін қене алаңу қабілеттінің арқасында үлкен қызығушылық тудыры. ChatGPT зерттеуіштерге әлбеттірге шәлу жасауға, идеяларын тұындауына және тіпті ғылымды мақалалар жазуға қөмектесетін әмдеміндіктың әрекетінде арқак жетеді. Дегенмен, революциялық технология жақсарту әкімдісі әлеңсіз жағдайға дауыл маселелері, атап айтқанды авторлықты, әмдеміндік қүпійіліктің және ағат пікірлілікті тудырады. Макалада ChatGPT-тың академиялық мақсаттарда қоңызданың артықшылықтары мен қемшіліктері жан-жақты қарастьрылады. Артықшылықтары мен ақпарат қолданылуы үшін іздеуде оның әлбеттірілігі, әлбетті рілдері әсеру, әлбетті синтезі әл жеделдету, идеялардың туындауың әлбетті реалды және қоқшындарды жоспарлауға қөмектесу. Екінші жағынан, ChatGPT-тің ғылыми құзметте қолдануы қемшіліктерге ғылымды адамдықты бұзу тәуекелдері, қауіпсіздік және қүпійілік маселелерінде жағынан ақпарат қарызған қемшіліктері болып табылады. ChatGPT артықшылықтары үшін қолданылуы мен академиялық адамдықты құраушы әлеңсіз жағдайға әрқашан қолданылуы табылады. Динамикасын талдау ҚІЖ мен зерттеу құзметінің өзгермегі үйісін қабылықты үшін өте маңызды болады.

Тұйынды өзгөрет: жасанды интеллект, информатика, санық денсаулық, әлбетті, әлбетті.


ПРЕИМУЩЕСТВА И НЕДОСТАТКИ ЧАТГРТ В КОНТЕКСТЕ СОСТАВЛЕНИЯ НАУЧНЫХ СТАТЕЙ

Резюме
Использование искусственного интеллекта (ИИ), особенно ChatGPT, в контексте решения академических задач, вызвало значительный интерес благодаря его способности оптимизировать процедуры и расширять человеческие возможности. ChatGPT выступает в качестве информированного партнера, помогая исследователям проводить обзоры литературы, генерировать идеи и даже писать научные статьи. Тем не менее, революционная технология порождает спорные вопросы в области публикационной этики, а именно таких как: авторство, конфиденциальность информации и недостоверность. В статье подробно рассматриваются преимущества и недостатки использования ChatGPT в академических целях. Преимущества заключаются в его эффективности при поиске информации, преодолении языковых препятствий, ускорении синтеза литературы, облегчении выработки идей и помощи в планировании рукописей. С другой стороны, недостатки использования ChatGPT в научной деятельности заключаются в рисках нарушения научной честности, возможности распространения дезинформации, в нарушении безопасности и конфиденциальности. Крайне важно найти золотую середину между использованием преимуществ ChatGPT и поддержанием академической честности. Анализ динамики будет иметь решающее значение для навигации по меняющемуся стыку ИИ и исследовательской деятельности.

Ключевые слова: искусственный интеллект, информатика, цифровое здравоохранение, издательская этика.