
THE POTENTIAL AND RISK OF CHAT GPT AND AI FROM A POLICY PERSPECTIVE

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ABSTRACT

This research paper delves into the potential and risks associated with employing ChatGPT and AI from a policy perspective. It sheds light on the transformative influence of AI across diverse industries, such as healthcare, digital marketing, and education. Nonetheless, it places significant emphasis on the ethical challenges and concerns that arise with the use of ChatGPT. The paper specifically concentrates on the utilization of ChatGPT as an educational chatbot. While recognizing its potential to revolutionize education, the paper raises apprehensions regarding privacy, security, identity, morality, and well-being. It underscores the necessity for well-defined guidelines and standards to ensure responsible usage of ChatGPT within educational contexts. To foster responsible usage, the paper underscores the significance of implementing data privacy and security measures, transparency, and accountability throughout the development and deployment of ChatGPT. It advocates for the establishment of policies that prioritize education and awareness programs, as well as support for research and innovation in AI governance. The paper urges policymakers to consider the potential benefits of ChatGPT and AI while effectively addressing the associated risks. It highlights the importance of safeguarding privacy and security, promoting international collaboration and governance, and prioritizing ongoing research and monitoring. The paper underscores the need for policy frameworks and ethical considerations to guide the responsible use of AI. Furthermore, the paper presents case studies of both successful and unsuccessful implementations of ChatGPT and AI. These examples serve as valuable lessons for policymakers and underscore the importance of proactive measures to mitigate risks and ensure the responsible adoption of AI technologies. the research paper emphasizes the need for responsible use of ChatGPT and AI. It

calls for the establishment of policy frameworks, guidelines, and standards to address the ethical implications and challenges associated with their use. By prioritizing privacy, security, transparency, and accountability, policymakers can promote the responsible adoption of AI while fostering international cooperation and governance in this rapidly evolving field.

Introduction: Background and Objectives

- Have you ever wondered what the future of artificial intelligence holds for our society and how it might impact our lives?
- Did you know that AI technology is advancing at an unprecedented pace, and that it has the potential to revolutionize a wide range of industries, from healthcare to finance to entertainment?
- Could you imagine a world where machines can think and communicate just like humans, and where ChatGPT algorithms can generate human-like language with startling accuracy?
- With the rise of AI-powered chatbots and virtual assistants, are we on the brink of a new era of conversational computing that will change the way we interact with machines?
- As AI becomes more ubiquitous in our daily lives, what are the ethical and policy implications of using these technologies, and how can we ensure that they are used for the greater good?

Whenever we critically think about the artificial intelligence most of these questions are always comes in our mind. We will discuss about all these topics in detail in this paper.

Overview of ChatGPT and AI

ChatGPT is free to use and optimized for dialogue by using Reinforcement Learning with Human Feedback (RLHF). However, it may be inaccurate, untruthful, and misleading at times due to its design. [1]

ChatGPT is not connected to the internet and can produce incorrect answers, so users should

provide feedback by using the "Thumbs Down" button. [1]

As mentioned in the Figure 1:Opening page of ChatGPT. The ChatGPT clearly stated its capabilities and its limitations.

A sibling model to InstructGPT, ChatGPT is taught to follow instructions in prompts and respond in-depth. Developers can incorporate ChatGPT into their own programmes, goods, or services by using the ChatGPT API. [3]

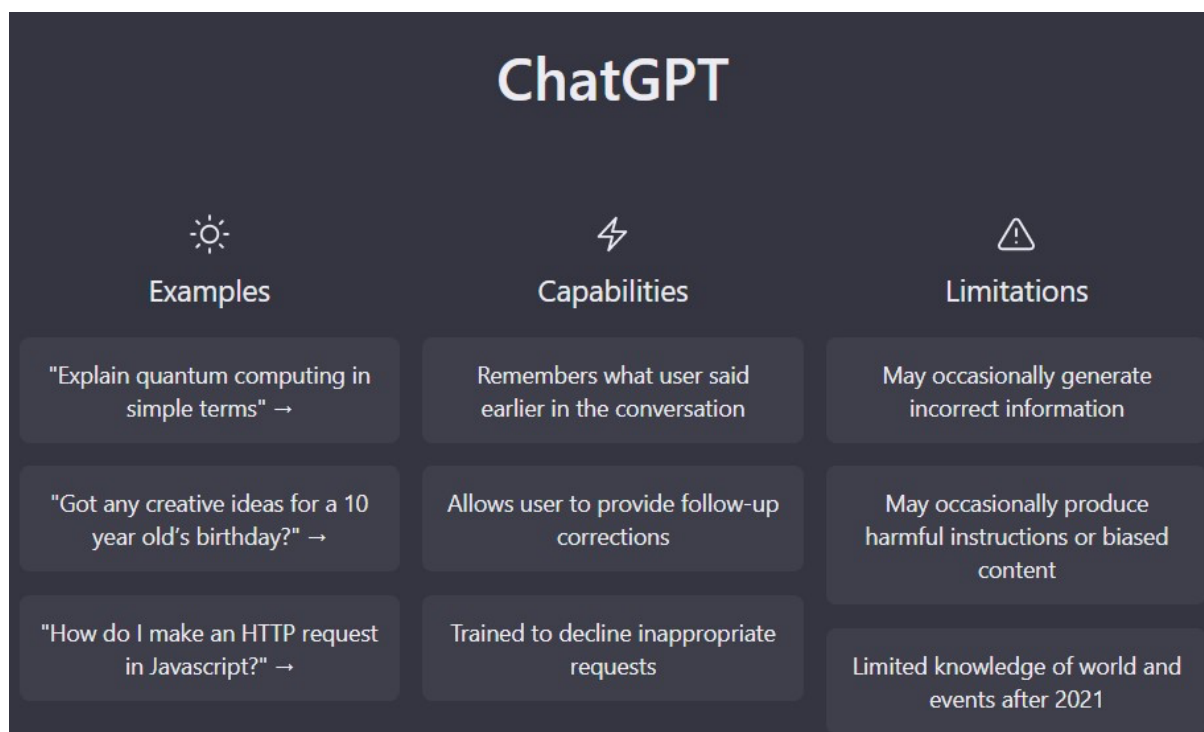


Figure 1:Opening page of ChatGPT [2]

Potential Benefits of ChatGPT and AI

ChatGPT and AI have the potential to revolutionize various industries, including healthcare, digital marketing, and natural language processing (NLP) [4] [5] [6] [7] [8]. OpenAI's ChatGPT language model can produce writing that resembles that of a human being and has been pre-trained on a vast quantity of data, enabling it to comprehend and respond to a variety of natural language inputs [8].

One of ChatGPT's most well-known uses is in conversational AI, where it can create chatbots for a variety of tasks, including customer service, virtual assistants, teaching, document evaluation, consultancy, research, and other conversational interfaces [4]. Additionally, ChatGPT may be used to research how people engage with conversational AI bots and how those bots can be made better [4]. ChatGPT can alter how companies produce and distribute content in digital marketing by enabling them to produce high-quality, tailored content at scale [4].

ChatGPT in healthcare has the potential to increase overall health and wellness experiences, lower healthcare expenditures, and improve patient outcomes [6]. A virtual assistant that aids patients in managing their health information, scheduling appointments, and receiving treatment can be created using ChatGPT [6]. Many patients increasingly choose to get care from the convenience of their homes thanks to the development of telemedicine, and a virtual assistant powered by ChatGPT may make this possible [6].

A fantastic research tool for NLP and machine learning (ML) problems is ChatGPT [4]. It may be adjusted to fulfil certain tasks or used to assess how well other models and digital ecosystems work [4]. ChatGPT is a perfect tool for healthcare applications, from individualised treatment plans to remote patient monitoring, since it can be used to create human-like replies to a variety of inquiries [6].

Although ChatGPT and other models of a similar nature have many uses in the field of natural language processing, there are also technical considerations to take into account, such as network connectivity or software compatibility, which may negatively impact the user experience [4]. The ethical ramifications of utilising such potent models, such as the possibility of bias, the requirement for openness, and the necessity for customer privacy, must also be taken into account [7] [8].

ChatGPT has the ability to transform education by giving students individualised learning opportunities [9]. It may adjust to students' learning preferences and offer performance feedback, resulting in improved exam results and higher marks [9]. In order to help students write better and more effectively explain their thoughts, ChatGPT may also be used by them [9].

However, adopting ChatGPT in the classroom might have certain drawbacks. One worry is that it can result in a breakdown in the relationship between students and their professors [9]. Another

drawback is that by giving pupils quick fixes and prohibiting brainstorming, it can reduce their capacity for originality [9].

Some instructors are instructing pupils on how to utilise ChatGPT appropriately and ethically to allay these worries [10]. Others have introduced ChatGPT into the classroom by utilising it to highlight illogicality, prejudice, and inaccuracy, allowing students to evaluate and examine its replies [10].

It is necessary to recognise, comprehend, and take into account the limits and disadvantages of ChatGPT [4]. Some of the difficulties and warnings that these models provide in a learning environment include the possibility of prejudice and the danger of restricting students' inventiveness [4].

Despite these reservations, ChatGPT has the potential to be a useful tool in the educational field, giving students a more individualised and engaging learning experience [9]. ChatGPT may help students learn more quickly and effectively by providing answers to questions, resolving concerns, aiding with tests, assisting with writing, and delivering individualised instruction [9]. ChatGPT may enhance education and assist students in developing crucial abilities like writing, critical thinking, and problem-solving when used properly and ethically [11].

Risks and Challenges of ChatGPT and AI

ChatGPT and other generative AI techniques come with dangers and difficulties when used [12]. One of the dangers is the possibility for moral and legal problems, such the usage of AI-generated work without the appropriate credit or permission [12]. The generated content's quality assurance is another concern because it may not always be correct or suitable [12]. Additionally, as consumers might not be able to tell the difference between information created by humans and that created by AI, user trust in this content may be poor [12]. Last but not least, problems with human-AI cooperation might arise from users not understanding how to utilise AI products properly [12].

ChatGPT has received mixed reviews in the educational community [13] [9]. While it can help students write better and offer individualised lessons, it can also be abused to cheat and stifle

students' originality [13] [9]. Due to worries about cheating, the New York City Department of Education even forbade the use of ChatGPT in classrooms [13].

Cybersecurity experts may utilise ChatGPT and other AI text generators to produce convincing phishing emails and other harmful material [14]. This puts both people and businesses at risk since it may make it simpler for adversaries without much experience to launch low-level assaults [14]. Long-term future scenarios may see an arms race between attackers and defenders employing AI to gain an advantage over one another, even though the immediate danger may be small [14].

Overall, there are advantages and disadvantages to using ChatGPT and other generative AI techniques. It's critical to utilise these technologies efficiently and properly while being mindful of the hazards and difficulties they provide.

Policy Frameworks for ChatGPT and AI

It's a complicated and developing problem to regulate AI, especially generative AI systems like ChatGPT. The AI Act, which adopts a risk-based approach to regulating AI systems, is being worked on by the European Union [15]. Some experts contend that this strategy is insufficient to contend with generative AI systems like ChatGPT [15]. Barry Finegold, a state senator from Massachusetts, has proposed a law that would mandate risk analyses and the implementation of security measures by businesses utilising AI chatbots [16]. However, there are presently no national or state laws in the US that specifically address chatbots like ChatGPT [16].

The best way to control generative AI systems like ChatGPT is still a problem for policymakers. According to The Brookings Institution, generative AI developers might contribute to the policy conversation by providing more particular information on their development processes and risk management strategies [17]. A methodology for controlling risk in AI systems has been established by the National Institute of Standards and Technology [16]. However, significant effort has to be done to create frameworks for policy that can successfully control generative AI systems like ChatGPT.

It's crucial to assess the possible effects on the workforce and society at large as AI continues to upend sectors and replace some positions formerly filled by humans [5]. The need to safeguard

people and society from possible damage must be balanced with the need to use AI's new powers. In order to regulate AI, especially generative AI systems like ChatGPT, certain policy interventions that take into consideration the particular dangers and difficulties offered by these systems are likely to be necessary [17].

Ethical Implications of ChatGPT and AI

There are advantages and disadvantages of using ChatGPT and other AI technologies, and there are moral questions that need to be answered. Building chatbots for many uses, including customer service, virtual assistants, teaching activities, document evaluation, consultation, research, and other conversational interfaces, is one of ChatGPT's key benefits [4]. Additionally, ChatGPT may be used to research how people engage with conversational AI bots and how those bots can be made better [4]. However, there are important limits and downsides to using ChatGPT and other AI techniques that need to be acknowledged and taken into account [4].

Privacy and security are two of the key ethical issues raised by ChatGPT and other AI technologies. Concerns regarding data privacy and security are raised when allowing students to utilise ChatGPT in the classroom since sensitive information may be at danger [4]. As a result, it's critical to make sure businesses using AI chatbots, like ChatGPT, do risk analyses and put security measures in place [16]. The possibility for AI chatbots to transmit negative instructions or prejudices is another ethical concern [12]. Anyone employing generative AI applications must be aware of the dangers and restrictions posed by AI techniques [12].

Additionally, there are worries regarding the effects on employment and the displacement of human labour as a result of the deployment of ChatGPT and other AI technologies [5]. AI has the potential to replace several activities now performed by people as it develops, including authoring news stories, customer service questions, copywriting, and producing legal documents [5]. This might significantly affect who is qualified for particular positions, cause employment loss, and increase economic inequality [5].

In conclusion, using ChatGPT and other AI technologies has both benefits and drawbacks, and there are moral questions raised by its usage that must be taken into account. Some of the most important ethical difficulties that must be resolved are issues with privacy and security, the

continuation of harmful instructions or prejudices, and the effect on employment. It is essential to make sure that using AI technologies is morally right and advantageous for society.

International Cooperation and Governance for ChatGPT and AI

For ChatGPT and other AI technologies to be used responsibly, global collaboration and governance are essential [18] (Global Alliance for Digital Governance, 2023). In order to guarantee that the creation and use of AI is in accordance with moral and legal standards, international regulations and guidelines put forward by bodies like the United Nations and the European Union are crucial to the administration of AI [18]. A framework for AI assistant regulation and ChatGPT is being developed by the Boston Global Forum and the Global Alliance for Digital Governance to support privacy, accountability, and responsible use of AI technology (Global Alliance for Digital Governance, 2023) [20]. The paradigm places a strong emphasis on openness, moral behaviour, and ongoing development (Global Alliance for Digital Governance, 2023).

There is debate on the proper degree of regulation for significant language models like ChatGPT [21]. Others contend that ChatGPT should be regarded similarly to other types of communication technology and be subject to little regulation, while some contend that it should be considered strictly regulated and supervised like other AI technologies [21]. However, it is crucial to guarantee the safe and responsible deployment of ChatGPT and other cutting-edge AI technologies given the possible consequences of their use [18]. This calls for efficient governance and monitoring, including organisations, procedures, and regulations put in place to guarantee the ethical growth of AI [18].

In conclusion, securing ethical usage of ChatGPT and other AI technologies requires global collaboration and control. A framework for AI assistant regulation and ChatGPT is being developed by the Boston Global Forum and the Global Alliance for Digital Governance to support privacy, accountability, and responsible use of AI technology. The paradigm places a strong emphasis on openness, moral behaviour, and ongoing development. Large language models like ChatGPT are subject to discussion over the proper amount of regulation, but it is crucial to

guarantee their safe and responsible implementation through efficient administration and supervision.

Case Studies: Successful Examples of ChatGPT and AI Implementation

1. ChatGPT in Practice: Case Studies and Success Stories is a blog post that showcases 25 chatbots that have been successful in various applications, such as customer service, therapy, sales, travel, surveys, and general usage. Some of the chatbots featured are HelloFresh Freddy, Woebot, Landbot.io, Dominos, Emirates Vacations, Alexa, Google Assistant, Polly, and ChatGPT-3 [22].
2. Generative AI Use Cases for Industries and Enterprises is an article by Gartner that explores the future of generative AI for enterprises beyond ChatGPT. It highlights five industry use cases for generative AI: drug design, material science, chip design, music composition, and video generation. It also predicts some trends and impacts of generative AI on marketing and media [23].
3. ChatGPT for Case Studies is a webpage that explains how ChatGPT is integrated into Speak Ai, a NLP and transcription software. The integration of ChatGPT into Speak Ai is valuable for researchers, marketers and organizations alike, as it provides a platform for them to effectively analyze case studies and gain valuable insights [24].

Case Studies: Failed Examples of ChatGPT and AI Implementation

1. Using ChatGPT for creating more compelling content for case study outlines⁴ is a blog post that suggests using ChatGPT to generate text for various sections of the case study, such as the background, methods, results, and conclusion. However, this approach has several drawbacks, such as the lack of reliability, accuracy, originality, and coherence of the generated text. Moreover, it may violate ethical and legal standards of academic writing and research [25].
2. What if the devil is my guardian angel: ChatGPT as a case study of ethical issues in artificial intelligence⁵ is a research paper that examines the ethical implications of using

ChatGPT as a chatbot for educational purposes. The paper argues that ChatGPT poses serious risks to the users' privacy, security, identity, morality, and well-being. It also exposes the limitations and biases of ChatGPT's natural language generation and understanding capabilities [26].

Future Prospects and Recommendations for ChatGPT and AI Policy

Prospects: ChatGPT and other generative AI systems have the potential to transform various industries and domains, such as education, healthcare, media, entertainment, finance, and law [23]. They can also enable new forms of creativity, innovation, and collaboration. However, they also pose significant challenges and risks, such as ethical, legal, social, and technical issues [26]. Therefore, it is important to monitor the development and deployment of these systems and ensure that they are aligned with human values and goals.

Recommendations: Some possible recommendations for ChatGPT and AI policy are:

1. Establish clear guidelines and standards for the use of ChatGPT and other generative AI systems in different contexts and domains. For example, specify when and how these systems can be used for academic, professional, or personal purposes, and what are the expected outcomes and responsibilities of the users [27].
2. Ensure data privacy and security for the data used by ChatGPT and other generative AI systems. For example, outline how the data will be collected, stored, protected, and shared, and what are the rights and obligations of the data owners and users [28].
3. Promote transparency and accountability for the development and deployment of ChatGPT and other generative AI systems. For example, disclose the sources, methods, and limitations of these systems, and provide mechanisms for feedback, review, and audit [29].
4. Foster education and awareness about ChatGPT and other generative AI systems among different stakeholders. For example, provide training and resources for the users, developers, regulators, and educators of these systems, and encourage public

dialogue and participation [30].

5. Support research and innovation on ChatGPT and other generative AI systems. For example, fund and facilitate interdisciplinary and collaborative research projects that explore the technical, ethical, social, and cultural aspects of these systems [23].

Conclusion: Key findings of the Main Results and Contributions

1. ChatGPT and AI have the potential to revolutionize various industries, including healthcare, digital marketing, natural language processing (NLP), and education. They can enable personalized interactions, improve healthcare experiences, enhance content generation, and provide individualized learning opportunities.
2. However, there are risks and challenges associated with ChatGPT and AI. These include potential moral and legal issues, concerns about content quality and trustworthiness, and the need for users to understand how to properly utilize AI products.
3. Policy frameworks for ChatGPT and AI are still in development. The European Union is working on the AI Act, which adopts a risk-based approach to regulation. There is a need for more specific information from generative AI developers and the establishment of frameworks that effectively control the risks posed by generative AI systems.
4. Ethical implications arise from the use of ChatGPT and AI, particularly concerning privacy and security, potential transmission of negative instructions or biases, and the impact on employment. It is important to ensure the responsible and beneficial use of AI technologies in society.
5. International cooperation and governance are crucial for the responsible deployment of ChatGPT and AI. Collaboration among global bodies such as the United Nations and the European Union is necessary to establish regulations and guidelines that align with moral and legal standards. Privacy, accountability, and responsible use of AI technology should be prioritized.

Guidance: Best Practices and Standards for Policy Development

1. Policy makers should consider the potential benefits of ChatGPT and AI in various industries and explore ways to promote their responsible adoption. This may include creating supportive frameworks and regulations that encourage innovation while addressing the risks and challenges associated with these technologies.
2. Policy interventions should be designed to safeguard privacy, security, and fairness when implementing ChatGPT and AI in educational settings. Risk analyses and security measures should be required for businesses utilizing AI chatbots to protect sensitive information.
3. Policymakers should promote international collaboration and governance to ensure ethical usage of ChatGPT and other AI technologies. Engaging in discussions and initiatives led by global organizations can contribute to the development of effective regulations and guidelines.
4. Education and awareness programs should be developed to enhance understanding of ChatGPT and AI among educators, students, and the general public. This includes promoting responsible and ethical use of AI technologies, addressing concerns about cheating and originality, and fostering critical thinking skills in evaluating AI-generated content.
5. Policymakers should prioritize ongoing research and monitoring to stay informed about the advancements and potential risks of ChatGPT and AI. This will enable them to adapt policies and regulations to keep pace with the evolving landscape of AI technology.

By taking these findings into account, policy makers can work towards maximizing the benefits of ChatGPT and AI while mitigating their risks, ensuring a responsible and ethical approach to the use of these technologies for the betterment of society.

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