CULTURAL AND SOCIAL ISSUES IN THE AGE OF CHAT GENERATIVE PRE-TRAINED TRANSFORMER - ChatGPT: AN ARTIFICIAL INTELLIGENCE IN LEARNING

Uzokife, Georgina Chinelo, *gc.uzokife@unizik.edu.ng* Department of Educational Foundations, Faculty of Education Nnamdi Azikiwe University, Awka, Anambra State

Chibueze, Ozioma Ogbonna oziomachibueze2015@gmail.com Department of Curriculum Studies and Educational Technology Faculty of Education, University of Port Harcourt, Rivers State, Nigeria

Abstract

A significant cultural shift has been spurred by the emergence of Chat Generative Pretrained Transformer (ChatGPT), a powerful Artificial Intelligence (AI) language model, in the quickly changing world of technology and communication. The diverse effects of Chat Generative Pre-trained Transformer (ChatGPT) on language use, social issues, information transmission, and ethical considerations are explored in this research. We examined the elements that contributed to its widespread adoption, such as accessibility, usability, and versatility, drawing on its evolution and capabilities. The impact of Chat Generative Pre-trained Transformer (ChatGPT) on language and society can be seen in the formation of new linguistic fads, fashions, and slang that are influenced by communication with the Artificial Intelligence (AI). Language and cross-cultural communication barriers have also changed as a result of this, creating both opportunities and challenges. We identify potential changes in social dynamics and the blending of human and Artificial Intelligence (AI) communication by examining the consequences on human-to-human interactions. ChatGPT can promote connectedness, yet its effect on social isolation raises certain concerns. ChatGPT is influencing how individuals receive and exchange information in the ever-changing information landscape, with consequences for news, education, and entertainment. However, this change raises questions regarding inaccurate information, prejudice, and moral issues related to content produced by AI. The integration of ChatGPT with cultural and social contexts puts ethical and moral issues front and center. The use of AI responsibly is required since misuse, privacy concerns, and authenticity arguments are major issues. Guidelines for ChatGPT's responsible integration across settings become more important as the technology's function develops. ChatGPT has sparked a cultural change that is profoundly influencing how the people communicate, share information, and interact with one another. To successfully navigate this environment, one must have a thorough grasp and understanding of its ramifications, be proactive with ethical questions, and be dedicated to using AI's potential to benefit society and also culture. This study makes suggestions for future research and policy development.

Key words: Culture, Social, ChatGPT

Introduction

The introduction of Chat Generative Pre-trained Transformer (ChatGPT), an advanced Artificial Intelligence (AI) language model has sparked a dramatic cultural revolution in an era marked by rapid, technical breakthroughs and their subsequent impact on society. It is a well-known illustration of how artificial intelligence (AI) is influencing language, communication, social interactions, and the distribution of knowledge as it continues to permeate all facets of human existence (Baidoo-Anu & Owusu, 2023). This essay explores Chat Generative Pre-trained Transformer's (ChatGPT) history, features, and wide-spread usage as it digs into the complex cultural upheaval it has sparked. It also looks at the elements that make it so accepted, like easy to use, accessible, and adaptable. This research explores the nuanced changes being made to language use and communication patterns via this artificial intelligence (AI). Due to interactions with the model, new language fads, trends, and even slang have emerged as a result of the model's ability to engage in natural conversations. Additionally, the effect of the AI on linguistic and cultural barriers is investigated, illuminating both the difficulties and opportunities that result from this AI-mediated dialogue (Rafael, 2013).

Another area of interest is how social relationships and interactions are changing. By which we analyze how the model affects human-to-human interactions, exploring potential changes in social dynamics and the potential merging of boundaries between human and AI interactions. The study also explores whether ChatGPT fosters new types of connectivity or worsens social isolation, emphasizing the complex influence of AI on interpersonal relationships. The way people gather and share knowledge is being revolutionized by changes in information consumption and dissemination. Along with the difficulties posed by biases, false information, and ethical problems inherent to AIgenerated content, the ramifications of relying on AI-generated material for essential sectors such as journalism, education, and entertainment are examined ethical and moral issues raised by the incorporation of this AI into various social and cultural situations (Williams, 2023). We examine the risks of abuse, privacy violations, and the urgent requirement for ethical AI usage. The paper also explores the current discussions about the fuzziness of authenticity and truth in AI-generated interactions, illuminating the complicated ethical issues surrounding AI-mediated communication. Finally, this essay explores ChatGPT's place in culture and society, along with some ideas for the future. Also, suggested principles for its responsible integration across diverse contexts, the prospective evolution of its influence is taken into consideration (Rudolph, et al., 2023).

Therefore, this essay will examine the cultural and social changes that have occurred as a result of ChatGPT's incorporation into various societal contexts. We will discover it's

broad influence on our cultural and social landscape by investigating its effects on language evolution, intercultural communication, human-to-human relationships, information consumption, and ethical considerations. Through this investigation, we will learn more about the advantages and disadvantages of this sophisticated AI technology, opening the door to a deeper comprehension of the changing relationships between people and AI in the area of communication. The paper finishes by making suggestions for additional study and policy creation that are intended to effectively address the new problems brought forth by this revolutionary AI technology.

Key Factors for the Rapid Adoption of Chat Generative Pre-trained Transformer (ChatGPT)

The outcome of Open Artificial Intelligence's (OpenAI) work to increase natural language production and understanding is Chat Generative Pre-trained Transformer (ChatGPT). It is a member of the transformer-based GPT (Generative Pre-trained Transformer) family of models. These models learn forms, setting, and linguistic structures from vast volumes of text data, which enables them to produce writing that is articulate and contextually relevant. As part of its development, it was trained on a variety of internet content, which allowed it to pick up knowledge of syntax, facts, logic, and even a modicum of common sense. The model can be used for many different natural language processing tasks, such as content production, discussion, text completion, and more since it is built to respond to cues or prompt with text that looks and sounds like human speech (Rudolph, et al., 2023).

Ease of Use: Chat Generative Pre-trained Transformer (ChatGPT) is made to be simple to use. The model can be used to interact with anyone, even individuals without technical knowledge, by prompting the model with commands one obtains understandable results. This simplicity of usage lowers the entry barricade and makes it available to a large audience.

Accessibility: Through a number of interfaces, including web-based platforms, APIs (Application Programming Interfaces), and incorporation into different apps, OpenAI has made an attempt to make this model usable by users. Because of this accessibility, users can engage with the model through their favorite channel (Baidoo-Anu & Owusu, 2023).

Versatility: the model's capabilities are flexible. It can be used for a variety of tasks, including writing code, generating content, replying to inquiries, and even having casual chats. It appeals to people and companies across a range of industries due to its adaptability to varied uses.

Continual Improvement: The GPT models have been developed interactively by OpenAI based on user response and current investigation. This commitment to upgrading has improved the model's output value and reduced prejudices, increasing its dependability for users (Baidoo-Anu & Owusu, 2023).

Customization: It has become even more valuable for specialized applications thanks to OpenAI's ability to be customized for specific tasks and fields. Its usability has been expanded to target markets and industries thanks to this customization opportunity.

Developer Community: As a result of OpenAI's reassurance for investigation, the model has given rise to innovative applications, tools, and combinations that demonstrate its potential. A community that supports the adoption and development of the model has been cultivated as a result of this interaction (Rudolph, et al., 2023).

Cultural Impacts: The way individuals connect with technology has altered thanks to Chat Generative Pre-trained Transformer (ChatGPT). Talking to AI has becoming increasingly prevalent, changing how people seek for information, communicate, and carry out jobs. It is a reality that content producers are now using it to create blog posts, articles, and social media content. This has effects on the media, marketing, and other sectors that focus on content. The model has provided support to people who have writing difficulties, language hurdles, or learning disabilities. It has made communication and educational possibilities more inclusive.

Concerns regarding biased content, deep fakes, and disinformation have been raised as a result of the model's ability to generate text. The efforts made by OpenAI to address these problems bring to light the ethical implications of AI language models. The ability to create material with the model may have an impact on writing and content generation employment. It can, however, also free up time for imaginative work requiring human judgment. Potential uses for the AI in education include helping students with research, writing, and learning support. It might alter conventional teaching strategies. The ease of use, accessibility, adaptability, and ongoing advancements of the model have been key factors in its development and wide adoption. Communication, content creation, work roles, support, ethics, and education are just a few of the cultural effects it has. As AI language models develop, their impact on society is likely to increase, forcing constant debates about how to use AI responsibly and ethically.

Social Interactions and Relationships

It is inevitable that Chat Generative Pre-trained Transformer (ChatGPT) will have an impact on social interactions and romantic relationships as it continues to be included into numerous elements of daily communication. The model has a variety of effects on this front, from facilitating talks to possibly changing how individuals interact with one another. It has given people a new method to converse and find company, particularly in circumstances when people can feel alone or alienated. Users frequently use it as a talking partner when they need support and compassion. This occurrence validates how deeply human social dynamics have been influenced by technology. (Rafael, 2013).

The lines between human dealings and interactions with AI may become hazier as a result of interactions using the model. Users may start to form emotional bonds and connections with the AI model, giving it personalities and feelings. Complex ethical and psychological issues regarding the nature of connections between humans and AI are brought up by this interplay. People's communication methods with AI models like ChatGPT can affect how they interact with other people. Artificial intelligence (AI) may unintentionally influence real-world interactions in terms of politeness, tone, and conversational structure, potentially changing established social norms and manners (Luhmann, 2022). Even though the model can simulate empathy and emotional reactions, it is essentially incapable of understanding emotions. This could cause people to either overestimate the AI's comprehension capabilities or underestimate the value of a true human emotional connection. This may eventually affect how people experience and communicate their emotions in both virtual and physical environments.

New linguistic trends and styles might also arise as a result of interactions using the model. Users may play around with language in their interactions, resulting to the development of slang, idioms, or neologisms that are specific to discussions with AI. These novel linguistic constructions might eventually become commonplace (Luhmann, 2022). Cross-cultural communication may be both facilitated and complicated through ChatGPT. On the one hand, it can be used as a translation tool to improve communication between speakers of various languages. On the other side, the AI might not effectively represent cultural nuances, idiomatic idioms, and humor, resulting in misunderstandings and misinterpretations. By offering real-time translation and communication support, it has the potential to lessen communication obstacles. In a globalized environment, this might make it easier for people with various linguistic backgrounds to collaborate and understand one another.

Interactions with this AI could unintentionally result in the spread of cultural appropriation or insensitivity. Due to a lack of actual understanding, the AI's comments could perpetuate prejudices or make light of delicate cultural issues. Users must exercise caution to maintain cultural sensitivity and respect in these exchanges (Baidoo-Anu & Owusu, 2023. It has a considerable and developing impact on interpersonal communication and relationships. It is transforming intercultural communication by affecting how individuals speak and how words are used. While improved communication and fewer language barriers have advantages, there are drawbacks connected to emotional comprehension, the dynamics of the AI-human interaction, and potential cultural insensitivity. It will be vital to negotiate these developments intelligently and morally as technology develops.

Information Consumption and Dissemination

How information is consumed and shared has been dramatically changed by the introduction of Chat Generative Pre-trained Transformer (ChatGPT) and related Artificial Intelligence (AI) language models. It has made it possible to quickly produce text-based material, which can be both advantageous and disadvantageous. On the one hand, this speed can make it easier for pertinent information, news updates, and responses to requests to get out there. On the other hand, since AI-generated content might not be factchecked or accurate, it can result in the spread of false information. As AI language models learn from the text data they are trained on, biases contained in that material may unintentionally be reinforced (Walker & Bell, 2023). The AI's reactions when users prompt it or have conversations with it may reflect and reinforce preexisting societal biases. This might serve to strengthen biased viewpoints and create echo chambers. Traditional media outlets and content production have been impacted by the accessibility of AI-generated material. The landscape of journalism, marketing, and the creative industries has changed as a result of people and organizations being able to produce content without the need for significant human engagement (Baidoo-Anu & Owusu, 2023).

People might find it difficult to tell if the material they encounter is produced by humans or AI when AI-generated content becomes more common. The blurring of boundaries could result in less critical thinking and an increased dependence on content produced by AI without adequate verification. Information overload may be a result of the quick production of AI-generated material, which includes blogs, social media posts, and articles. Improving algorithms and methods for content cu-ration is necessary since it is getting harder to sift through vast amounts of content to find what is valuable and credible (Baidoo-Anu & Owusu, 2023). While AI-generated material has drawbacks, it also provides new opportunities for innovation and teamwork. AI tools can be used by content producers to improve their work, automate tedious activities, and discover new ways to express themselves. Deep-fakes—realistic audio or video content that is altered or wholly generated by AI—can be produced using the technology that underpins it. This has effects on credibility and confidence in the media and communication. Regulations and moral principles are becoming more and more necessary as AI-generated material spreads. This ought to cover topics like accountability for damaging or deceptive information as well as openness in AI-generated content and disclosure of AI involvement. The possibility for rapid information sharing, the reinforcing of biases, the disruption of traditional media, and the demand for better source evaluation are just a few of the opportunities and difficulties it presents. As this technology develops further, society must consider how it will affect how we ethically consume and exchange information (Williams, 2023).

Ethical and Moral Considerations

A number of ethical and moral issues have arisen as a result of the rise of AI-generated content, as demonstrated by platforms like Chat Generative Pre-trained Transformer (ChatGPT). These issues need to be carefully considered and resolved. Weighing these technologies' effects on people, communities, and the larger information landscape is critical as they become increasingly ingrained in societal features. AI-generated material has the potential to unintentionally or intentionally propagate erroneous information, which could result in misinformation and disinformation. Before material reaches a large audience, it may be challenging to fact-check and verify it because to the pace at which AI-generated content is produced. This may erode public confidence in information sources, cause confusion, or even be harmful (Cairns, 2023).

Large datasets that may contain biased or unrepresentative data are used to train AI models like ChatGPT. As a result, certain groups may be marginalized and biased outcomes may be produced. To address bias in AI-generated content, rigorous training data selection, continuing testing, and open decision-making are necessary. Critical thinking abilities and the capacity to discriminate between human- and AI-generated content may depreciate as people depend more on AI-generated content for news, education, and entertainment. This might make it harder for people to evaluate the reliability and correctness of the information they come upon (Taekke, & Paulsen., 2022).

AI-generated content calls into doubt the uniqueness and creativity of human beings. If a significant part of content is produced by machines, it may have an effect on sectors of the economy that depend on human creativity. Furthermore, it can be difficult to fairly and ethically attribute works produced by AI, particularly when those systems can mimic different writing styles. AI models frequently rely on enormous volumes of usergenerated data to produce their content. It's important to guarantee that people's privacy is upheld and that their data is utilized appropriately. In order to uphold ethical norms, transparency in data collection and use is essential, as is gaining informed consent (Williams, 2023).

It can be difficult to determine who is responsible when AI-generated content causes harm or false information. As AI systems learn from data, putting all of the blame on the engineers is insufficient. It is difficult to create frameworks that allocate blame and accountability for AI model actions. This is so that content can be utilized to sway people's perceptions and feelings. Deepfakes and altered information produced by AI systems have the potential to mislead people and have serious repercussions, particularly in settings like politics and public discourse. It becomes essential to ensure content's integrity and authenticity. The widespread use of AI-generated content may result in job

losses in sectors including writing, journalism, and content development. It is crucial to address the potential job effects and to provide chances for upskilling and reskilling. The widespread usage of AI-generated content has the potential to change cultural expressions, society norms, and values. Important factors to take into account include understanding and minimizing the possible long-term effects on culture, interpersonal interactions, and information intake (Taekke, & Paulsen 2022).

It's crucial for developers, legislators, and society as a whole to work together and define precise rules, procedures, and ethical outlines in order to circumnavigate these ethical and moral problems. To ensure that these technologies improve human well-being, knowledge, and originality without undermining core principles, it is vital to strike a balance between the advantages of AI-generated material and its potential risks. In order to create a future where AI and human connection are both accountable and ethical, ongoing research, transparency, and public discourse are required.

Future Prospects and Recommendations

Collaborative Research: To create AI models that are more in line with societal norms and values, encourage cooperation between ethicists, social scientists, and cultural experts.

Regulation and Standards: To create rules and guidelines for the moral use of AI in cultural and social situations, policymakers should collaborate with the AI sector. These rules can solve problems with accountability, transparency, and privacy (Seddon, 2022).

Continuous Monitoring and Auditing: Create systems for ongoing oversight and auditing of AI interactions in order to spot and address any potential ethical problems. AI systems can continue to uphold ethical norms with regular assessments.

Public Dialogue: The ethical implications of AI technologies should be the subject of open discourse and public debate. Better decisions and policies can result from including a wide range of stakeholders (Andersen, 2003).

Opportunities and difficulties are presented by the integration of AI technologies into cultural and social situations. A multifaceted approach comprising cooperation, education, regulation, and responsible development methods is necessary to address ethical problems, minimize misuse, ensure user privacy, and navigate challenges connected to truth and authenticity. By taking these actions, we may try to harness AI's positive effects while reducing any possible downsides for society (Seddon, 2022,). Additionally, it has the potential to have a considerable influence on how culture and society are shaped in a variety of areas, including customer service, education, and the support of mental health. It's critical to foresee and handle any potential effects on people and communities as

technology develops. However, following these recommendations will ensure that ChatGPT is properly integrated across a range of contexts:

Ethical Design and Education of Users

The design should ensure that the underlying algorithms and training data are created with biases minimized, human rights upheld, and harmful content avoided. Also, it should put in place safeguards to stop the creation of offensive, discriminatory, or information-disseminating content.

The design should prevent misuse and misunderstanding, by ensuring to notifying users in a clear and transparent manner about ChatGPT's capabilities and restrictions; including informing users about the AI nature of the technology so they can decide for themselves whether or not to believe and understand the results (Swift, 2022). The design should empower the model to comprehend various cultural, social, and emotional settings and respond appropriately while avoiding offensive or inappropriate exchanges. Try to put user privacy first by protecting data and making it anonymous to avoid potential exploitation of personal data. There should be a possibility that enable users to manage the data they share, and guarantee adherence to applicable data protection laws. Monitoring and improvement of the model should be encouraged. This will help to specify that the model serves as a supplement to human abilities rather than as a substitute for interpersonal communication in crucial fields like healthcare and counselling. The model should be updated and improved on a regular basis to maintain accuracy, safety, and efficacy, depending on user feedback and new difficulties (Baidoo-Anu & Owusu, 2023).

Conclusion

Although, Chat Generative Pre-trained Transformer (ChatGPT) potential development offers a lot of promise, it also necessitates a cautious and responsible approach. We can make sure that ChatGPT blends into society while increasing human experiences by adhering to ethical design principles, educating users, preserving privacy, and addressing emergent concerns. To navigate the changing terrain of artificial intelligence and to make sure its advantages are realized while limiting hazards, ongoing research and coordinated policy creation are crucial.

Recommendations for Further Research and Policy Development

Bias Mitigation: Spend money on research that will help eliminate biases in language creation so that ChatGPT respects diversity and doesn't reinforce preconceptions.

Transparency: Create strategies to increase the transparency of ChatGPT's decision-making process, allowing users to comprehend how responses are produced.

Accountability: Create procedures for holding developers and organizations responsible for the information produced by ChatGPT, particularly when it causes harm or misrepresentation.

Legal and Regulatory Frameworks: Establish explicit guidelines for the usage of AI-generated content in collaboration with legal professionals and legislators, taking into consideration concerns of intellectual property, liability, and user rights (Swift, 2022).

Human-AI Collaboration: Investigate strategies for developing settings where AI supports human creativity, decision-making, and problem-solving, allowing humans and AI to work effectively together.

Long-Term Effects: To determine the long-term effects of AI interactions on mental health, interpersonal connections, and cognitive ability, longitudinal research should be conducted.

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