SoTL Snapshot

A synopsis of a scholarship of teaching and learning journal article

Exploring the Educational Potential of ChatGPT: Benefits, Drawbacks, and Implications

What is this Research About?

Since its public release on November 30, 2022, ChatGPT quickly attracted over a million users within a week, demonstrating its sophisticated ability to perform complex tasks. The generative AI tool, ChatGPT, has sparked mixed reactions among educators due to its profound capabilities, potentially revolutionizing educational practices. In this study, the researchers explore the benefits, challenges, and broader implications of integrating ChatGPT into educational settings, examining its transformative impact on teaching and learning and addressing the various concerns and opportunities it presents.

What did the Researchers Do?

The researchers employed an exploratory approach, reviewing existing literature and actively engaging with ChatGPT to gauge its functionalities and limitations. By posing various educational questions to ChatGPT and analyzing its responses against scholarly research, the researchers assessed its effectiveness and applicability within educational environments.

What did the Researchers Find?

The researchers found that ChatGPT offers several benefits for educational settings, including personalized tutoring, automated essay grading, language translation, interactive and adaptive learning experiences. However, it also identified significant drawbacks such as reduced human interaction, bias in training data, and privacy issues. These findings emphasize the need for careful integration of ChatGPT in educational contexts, with a strong focus on awareness and mitigation of its limitations.

How to Implement this Research in Your Classroom

To implement this research in the classroom, instructors can utilize ChatGPT to enrich teaching and learning through personalized tutoring, automated grading, and interactive experiences. It is essential to balance the use of AI tools with human interaction and address issues like privacy and data bias. Additionally, professional development programs should be designed to equip educators with the necessary skills to integrate and manage AI technologies effectively in their teaching practices.

Citation

Baidoo-Anu, D., & Owusu Ansah, L. (2023). Education in the era of Generative Artificial Intelligence (AI): Understanding the potential benefits of ChatGPT in promoting teaching and learning. Journal of AI, 7(1), 52–62. https://doi.org/10.61969/jai.1337500

Keywords

ChatGPT
Generative AI
Digital Pedagogy

Teaching
Learning

UNIVERSITY of GUELPH

OFFICE of TEACHING AND LEARNING

Snapshot Writer: Aasim Khan