The Ethics of LLM Chatbots in Higher Education: A Mixed Method Investigation into Academic Integrity and Responsible AI Use



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Abstract:
The integration of Large Language Model (LLM) chatbots in higher education presents a complex ethical landscape, navigating the intersection of academic integrity, responsible AI use, and human learning. This article delves into the far-reaching implications of LLM chatbots, exploring their impact on academic integrity, ethical considerations, and the future of higher education. Through a mixed methods approach, we uncover the multifaceted perspectives of students, faculty members, and administrators, illuminating the intricate dynamics at play. Our findings reveal a nuanced narrative of LLM chatbot use, highlighting the need for ethical development and implementation that prioritizes academic integrity and responsible AI use. We conclude with actionable recommendations for higher education institutions, policymakers, and LLM chatbot developers, paving the way for a future where AI technology enhances human learning while upholding the highest ethical standards.
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Introduction:
The advent of Large Language Model (LLM) chatbots in higher education marks a significant turning point in the academic landscape. As AI technology continues to evolve, it's crucial to examine the ethical considerations that arise when LLM chatbots intersect with human learning. This article embarks on a comprehensive exploration of the impact of LLM chatbots on academic integrity, delving into the abstract concepts of bias, privacy, and accountability in AI-driven learning.

Literature Review:

The literature review traverses the vast expanse of LLM chatbots, their capabilities, and their presence in higher education. It grapples with the ethical considerations of AI-driven learning, including bias, privacy, and accountability, and confronts the challenges of plagiarism, cheating, and authorship in the digital age. The review synthesizes the findings of existing studies, identifying patterns and themes that inform our understanding of LLM chatbots in higher education.

Methodology:

The study employs a mixed methods approach, combining quantitative and qualitative data collection and analysis methods. Surveys, interviews, and focus groups converge to form a rich tapestry of perspectives, encompassing students, faculty members, and administrators. This inclusive approach ensures a nuanced understanding of LLM chatbot use, perceptions of academic integrity, and ethical considerations.

Findings:

The findings section presents a multifaceted narrative, chronicling the impact of LLM chatbots on academic integrity and the ethical considerations that arise. Survey data, interview transcripts, and focus group insights coalesce to reveal a complex landscape of LLM chatbot use, highlighting the need for ethical development and implementation.

Discussion:

The discussion section delves into the very fabric of the findings, teasing out the implications of LLM chatbots on academic integrity and responsible AI use. It navigates the abstract realms of bias, privacy, and accountability, confronting the ethical conundrums that arise when AI technology intersects with human learning.

Conclusion:

The conclusion synthesizes the study's findings, distilling the abstract concepts into actionable recommendations. It presents a clarion call for higher education institutions, policymakers, and LLM chatbot developers, outlining strategies for ethical development and implementation that prioritize academic integrity and responsible AI use. Finally, the conclusion gazes into the horizon, identifying future research directions that will continue to illuminate the complex ethical landscape of LLM chatbots in higher education.

References:

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