Literature Review: The Influence of Artificial Intelligence (AI) ChatGPT on Students' Learning Motivation

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Abstract

The advent of Artificial Intelligence (AI) platforms represents a significant breakthrough of the Fourth Industrial Revolution, particularly within the education sector, where such technologies increasingly support teaching and learning processes. Students frequently utilize AI tools to access lecture-related information, enabling more efficient completion of academic assignments. Among the rapidly evolving AI technologies, OpenAI's ChatGPT (Generative Pre-trained Transformer) has emerged as a widely used tool, offering interactive support and access to diverse information sources in real time. Its capabilities position it as a valuable resource in enhancing student engagement and motivation in learning. This study aims to explore the impact of ChatGPT on student learning motivation through a qualitative descriptive approach. The methodology is based on a comprehensive literature review involving the collection, interpretation, and synthesis of relevant studies. Findings suggest that ChatGPT can positively influence student motivation by facilitating better understanding of course material and promoting self-directed learning. To maximize these benefits, the study highlights the importance of providing students with proper orientation and training on the effective use of ChatGPT as a learning aid.

Keywords: Artificial Intelligence; ChatGPT; Learning Motivation.

Introduction

The rapid advancement of technology has profoundly transformed various aspects of human life, ushering in the era of information where nations across the globe strive to digitally connect rural communities, educational institutions, and public organizations. This integration aims to enhance access to information and facilitate interactions across different sectors of society. Technological progress, particularly in information and communication technologies (ICT), has significantly influenced cultural dynamics and everyday practices, streamlining activities and improving efficiency in both personal and professional contexts.

Among the most impactful innovations is the development of Artificial Intelligence (AI), especially in the realm of computer technology. AI systems, designed to mimic human cognitive functions, offer decision-making capabilities that resemble human intelligence, thus optimizing processes across various domains. As defined by Nelliraharti (2024), AI refers to computational systems engineered to perform tasks typically requiring human intelligence, including problem-solving, reasoning, and learning. These systems are increasingly integrated into educational settings, where AI technologies are utilized by students, educators, and academic staff to enhance teaching and learning processes, support online education, analyze data, and foster critical thinking.

In today's digital age, AI stands out as a transformative force, with ChatGPT—an advanced language model developed by OpenAI—emerging as one of the most influential AI applications. Designed for natural human interaction, ChatGPT can respond to inquiries,

generate text, and assist in a variety of academic tasks. While ChatGPT lacks consciousness and emotions, it is capable of delivering real-time, contextually relevant information. According to Risnina et al. (2023) as cited in Farman (2024), ChatGPT utilizes the GPT-3.5 model in its free version and the more advanced GPT-4 model in its premium version, GPT Plus. Its application in the education sector has expanded rapidly, assisting educators in responding to student queries with clarity and precision.

Ramadhan et al. (2023) in Farman (2024) highlighted that ChatGPT can serve as a virtual assistant that provides personalized and adaptive learning support, available at any time. Its interactive features can foster deeper engagement and enhance learning motivation by offering continuous assistance outside the traditional classroom setting. In this context, ChatGPT represents a potential shift in educational practices by promoting more autonomous and student-centered learning experiences.

However, the integration of AI tools in education has sparked considerable debate, particularly regarding their impact on students' learning motivation - a critical determinant of academic success. Motivation encompasses both internal factors (such as interest, goals, and self-confidence) and external influences (such as the learning environment and available resources). Technological tools, while beneficial in expanding access to information and promoting self-directed learning, may also introduce challenges. As noted by Nelliraharti (2024), excessive reliance on AI can diminish students' initiative, reduce their engagement with traditional academic resources, and hinder the development of creativity, critical thinking, and interpersonal communication skills. This overdependence may ultimately erode students' confidence and capacity for independent problem-solving.

Firat (2023) in Risnina et al. (2023) emphasized the importance of studying AI applications in education to identify best practices for leveraging tools like ChatGPT in support of autonomous learning. Similarly, Zhai (2022) argued that ChatGPT's capabilities could significantly shape learning objectives, assessment methods, and the overall educational experience. Thus, while the benefits of ChatGPT are substantial, its limitations must also be acknowledged and managed within pedagogical frameworks.

This study, titled "Literature Review: The Influence of Artificial Intelligence (AI) ChatGPT on Student Learning Motivation," aims to analyze the impact of ChatGPT on students' learning motivation in higher education contexts. It explores how the platform supports students in understanding course material, completing assignments, and preparing for assessments. Furthermore, the study investigates students' perceptions of ChatGPT's role in their academic journey and its effects on their motivation and learning outcomes. By examining both the potentials and the pitfalls of ChatGPT, this research seeks to contribute to the development of effective, technology-enhanced learning strategies. The findings are intended to inform educational institutions seeking to integrate AI tools into their pedagogical practices, fostering a more interactive, efficient, and motivating learning environment.

Theoretical Review

Artificial Intelligence (AI) and ChatGPT in Education

Rifky (2024) defines Artificial Intelligence (AI) as a multidisciplinary field focused on developing computer systems capable of performing tasks that typically require human intelligence, such as facial recognition, natural language processing, decision-making, and learning. According to Russell and Norvig (2016, as cited in Rifky, 2024), AI encompasses a

wide range of techniques including machine learning, deep learning, and neural networks. The conceptual foundation of AI dates back to the 1950s, with pioneers like Alan Turing and John McCarthy introducing the notion of intelligent machines. Since then, rapid advancements in computing power and algorithmic design have facilitated the creation of increasingly sophisticated and efficient AI systems.

Rifky (2024) further explains that several branches of AI are actively applied in the field of education. Machine learning allows systems to learn from data and improve performance autonomously. Deep learning, a subfield of machine learning, leverages multi-layered artificial neural networks to analyze and interpret complex datasets. Meanwhile, natural language processing (NLP) enables computers to comprehend, process, and generate human language, enhancing communication between machines and users.

One of the most widely used AI tools among students is ChatGPT. Pratiwi et al. (2024) highlight that ChatGPT can interpret natural language, respond to queries, and deliver contextual, relevant answers. Trained on vast corpora of text data, ChatGPT is capable of generating coherent responses across a variety of topics, making it useful for information retrieval, question-answering, and even entertainment. Its contextual awareness allows for accurate and engaging interaction, supporting a wide range of educational applications.

Moreover, Pratiwi et al. (2024) note that integrating ChatGPT into learning activities opens new possibilities for linguistically rich student-computer interaction. Learners can engage by inputting queries, requesting definitions, or seeking clarification, with the system offering immediate, contextual feedback. This interaction aligns with the findings of Chapelle (2008, as cited in Pratiwi et al., 2024), who asserts that such responsive systems enhance language learning by offering real-time input evaluation and fostering metalinguistic awareness.

Rifky (2024) emphasizes that educators must remain adaptive in response to these technological developments to enhance their professional competencies. While AI offers significant benefits in personalizing learning and assessment, the role of educators as facilitators, motivators, and mentors remains essential. Effective integration of AI tools like ChatGPT requires educators to develop new pedagogical strategies that combine technological innovation with human-centered learning approaches, thereby supporting students' holistic academic and personal development.

Learning Motivation

Pujadi (2007, as cited in Wulandari et al., 2023) defines student learning motivation as an internal condition that drives and directs student behavior toward the achievement of educational goals. Similarly, Dariyo (2004, as cited in Wulandari et al., 2023) characterizes learning motivation as the internal force that initiates and sustains learning activities, providing direction and continuity, thereby enabling students to achieve their desired academic outcomes. A strong sense of purpose and clarity about one's goals is critical in fostering high learning motivation. When students clearly understand their aspirations, they are more likely to be motivated and committed to learning.

Cherniss and Goleman (2001, as cited in Wulandari et al., 2023) further describe learning motivation as an emotional inclination that energizes and facilitates individuals in the pursuit of academic goals with persistence and enthusiasm. However, Wulandari et al. (2023) point out that fostering learning motivation among students, especially those transitioning from different

regions or educational systems, poses challenges. Many students may not initially recognize the importance of learning motivation in achieving academic success. The shift from secondary to higher education introduces new expectations and academic rigor, requiring students to cultivate stronger self-motivation. A lack of motivation can lead to disinterest in learning, low academic engagement, and ultimately poor academic performance.

According to Wulandari et al. (2023), signs of low learning motivation include reluctance to complete assignments, indifference toward academic subjects, neglect of learning materials, and a general lack of enthusiasm during classes. Effective learning, therefore, necessitates the presence of strong motivation throughout the educational process.

Hasibuan (2010, as cited in Yeni et al., 2022) asserts that motivation acts as a stimulant and the driving force behind one's willingness to engage in work or study, as each motivation is tied to a specific goal. Agustina (2011, as cited in Yeni et al., 2022) defines learning motivation as the internal drive that generates enthusiasm in students, ultimately enabling the achievement of educational objectives. Yeni et al. (2022) emphasize that students often strive to perform well in their studies because they are intrinsically motivated to achieve the best possible results. Furthermore, Yeni et al. (2022) categorize learning motivation into six components:

- 1. Desire and ambition to succeed
- 2. Motivation and need to learn
- 3. Aspirations and future goals
- 4. Recognition and rewards in learning
- 5. Engagement in interesting learning activities
- 6. Motivational drive to improve learning outcomes

Poluan and Honandar (2023) explain that the term "learning motivation" combines two concepts—motivation and learning—each carrying distinct meanings. The term "motive" refers to a force that drives an individual to act. Cahyani et al. (2020, as cited in Poluan & Honandar, 2023) describe motivation as a transformation of energy within an individual, marked by emotional responses and actions aimed at achieving specific goals. Learning, on the other hand, is viewed as a process through which individuals endeavor to bring about behavioral change.

Therefore, learning motivation can be understood as the comprehensive internal drive that compels individuals to engage in educational activities, with the aim of achieving their personal academic goals. According to Gowing (2001, as cited in Poluan & Honandar, 2023), learning motivation comprises four key components:

- 1. Achievement Motivation: The desire to realize personal goals and aspirations.
- 2. *Commitment:* A crucial element of the learning process, reflected in students' awareness, dedication to completing tasks, and ability to manage responsibilities.
- 3. *Initiative*: The ability to generate new ideas and strategies that support academic success and self-guided learning.
- 4. *Optimism:* A resilient mindset that embraces challenges and maintains a belief in personal growth and continuous development.

Research Method

This study employed a narrative literature review approach, which involves the synthesis and critical analysis of existing theories and scholarly works to establish a theoretical foundation aligned with the research problem. As noted by Sukaesih and Winoto (2020, as cited in The Greatest Showman, 2023), a literature review is a process of identifying, collecting, and

analyzing written sources - such as books, archives, journals, and other documented materials - relevant to the topic under investigation.

Adi et al. (2020, as cited in Sartika et al., 2022) emphasize that literature review research relies on secondary data derived from academic sources, including books, articles, and scholarly journals that are pertinent to the research question. Similarly, Ulhaq and Rahmayanti (2020, as cited in The Greatest Showman, 2023) describe the literature review as a systematic, explicit, and reproducible method of identifying, evaluating, and synthesizing existing scholarly works.

According to Nihayati (2021), literature reviews generally involve summarizing and reflecting on an author's perspective based on multiple sources related to a specific topic or problem. This method serves as a valuable strategy for generating insights and formulating research objectives, providing a comprehensive understanding of the field under study. In essence, a literature review encompasses activities such as reading, documenting, and organizing references with the aim of describing relevant theoretical frameworks and positioning the current study within existing academic discourse.

Sartika et al. (2022) further elaborate that literature reviews represent an interpretive and integrative analysis of academic literature focused on a specific issue. This process involves the identification of research questions, systematic data collection, and analytical interpretation of relevant works using a simplified, yet rigorous, methodological approach. The review focused exclusively on original empirical research articles, particularly those reporting observational or experimental studies and containing complete sections—abstract, introduction, methodology, results, and discussion.

The article selection process utilized databases such as Google Scholar and Mendeley, employing keywords including Artificial Intelligence (AI) and student learning motivation. Inclusion criteria for literature selection were as follows:

- Articles employing a Randomized Controlled Trial (RCT) design
- Studies involving experimental research methodologies
- Primary source original research articles
- Articles published between 2020 and 2024
- Availability of full-text versions in either English or Indonesian
- Articles with student participants as respondents

In order to uphold the ethical standards and academic integrity of the review process, the study adhered to guidelines suggested by Wager and Wiffen (2011, as cited in Sumartiningsih & Prasetyo, 2019), including the avoidance of duplicate publication, prevention of plagiarism, transparency in methodology, and assurance of data accuracy.

Sartika et al. (2022) outline the key steps in the simplified approach to literature review analysis, including:

- Summarizing and critically appraising each article to assess strengths, limitations, and relevance
- Identifying themes that emerge from the literature and ensuring they align with the research questions
- Developing and naming themes based on comprehensive understanding of the literature
- Comparing, reviewing, and refining themes by evaluating similarities and differences, and analyzing interrelations

 Assessing thematic relevance through critical appraisal to determine whether the identified themes adequately address the research questions

The BI Critical Appraisal Tool for Experimental Studies was employed to evaluate the methodological quality, validity, and relevance of each included article, particularly those using RCT or other experimental designs. This evaluative process ensured that the literature review was grounded in robust empirical evidence, thus enhancing the reliability and academic rigor of the findings.

Results and Discussions

Based on the literature review of eight articles, the author found that Artificial Intelligence (AI), specifically ChatGPT, has an influence on students' learning motivation.

Table 1: Data Analysis Matrix of Articles Used in the Literature Review

| Title, Author, Journal | Method Design | Results |
|---|----------------------------|--|
| Study of the Implementation of the Utilization of Artificial Intelligence in the Academic Field for Accounting Study Program Students in the Special Region of Yogyakarta. Ayem et al., (2024). JEMMA (Journal of Economics, Management, and Accounting). 7(2). 244-266. | Qualitative Descriptive | AI technologies such as ChatGPT offer the potential for enhanced personalization in learning, enabling curricula to be tailored to the specific needs of individual students. This personalization can foster greater engagement and motivation, as learners are more likely to connect with content that aligns with their interests and abilities. Moreover, AI can contribute to administrative efficiency by automating routine tasks, thereby allowing educators to dedicate more time to meaningful interactions with students. However, students in the Accounting Study Program in the Special Region of Yogyakarta recognize several challenges associated with AI usage, including the risks of plagiarism, diminished critical thinking skills, and over-reliance on AI tools. These concerns underscore the importance of conducting further research into the limitations of AI in educational contexts. Accordingly, the integration of AI into learning processes must be undertaken with careful planning and supported by well-defined institutional policies. Presently, a lack of clarity regarding AI regulations in many universities has led to confusion among students, highlighting the urgent need for policy adjustments that align with technological advancements and promote responsible use within academic environments. |
| Motivation for Using ChatGPT by Library Science Students at UIN Ar-Raniry Banda Aceh. Asnawi (2024). Indonesian Journal of Library and Information Science. 5(2). 120-128. | Qualitative Descriptive | Based on the five indicators of Maslow's hierarchy of needs, it is evident that students from the Faculty of Adab and Humanities are motivated to utilize the ChatGPT platform in their information-seeking activities. The findings indicate that students tend to experience all levels of Maslow's motivational needs, ranging from basic physiological needs to self-actualization. Overall, this study demonstrates that student motivation in using ChatGPT is closely linked to the fulfillment of these hierarchical needs. ChatGPT serves not only as a technical tool but also |

| Title, Author, Journal | Method Design | Results |
|---|-----------------------------|---|
| | | as a vital medium for supporting students' academic performance and personal development. With its flexible functionalities, ChatGPT facilitates not just information retrieval but also fosters skill enhancement, improved learning efficiency, and the realization of students' full potential within the educational environment. |
| Analysis of the Use of ChatGPT as a Virtual Assistant to Improve Learning Motivation of Information Technology Education Students. Farman (2024). Journal of Education and Teaching Review. 7 (3). 6636-6639. | Qualitative Descriptive | ChatGPT plays a significant role in enhancing students' learning motivation. As a virtual assistant, it not only provides academic support but also fosters motivation through personalized and responsive interactions. Nevertheless, certain areas require further improvement, particularly in understanding local and context-specific nuances. Despite this, ChatGPT has demonstrated a positive impact on students' motivation to learn. The benefits experienced by students in the Information Technology Education program include quick and accurate access to information, personalized learning support, increased interest and engagement in learning activities, and the development of independent learning habits. With its ability to tailor support to individual needs, ChatGPT has proven effective in creating a more supportive and motivating educational environment. |
| Analysis of the Use of GPT Chat (AI) and Programming Modules on Student Learning Motivation and Creativity in Programming Courses in the Information Technology Education Study Program, Bina Bangsa University. Mutaqin et al., (2024). Scientific Journal (Multi | Quantitative | The use of ChatGPT (AI) can enhance students' motivation in understanding programming concepts and practices, and has been proven effective in assisting students with problem-solving in programming courses. |
| Science Journal). 22 (1). 1-8. The Influence of Using ChatGPT on the Learning Motivation of STMIK Antar Bangsa Students. Nufus (2024). Journal of Informatics Engineering STMIK Antar Bangsa. 10 (1). 28-31 | Quantitative | Based on the research findings, the use of ChatGPT has a significant impact on enhancing the learning motivation of STMIK <i>Antar Bangsa</i> students. ChatGPT is perceived as highly beneficial in the learning process, with respondents agreeing that it is effective in providing relevant information. Overall, the use of ChatGPT in academic settings received a positive response, as it was considered helpful, efficient, and capable of increasing students' motivation to learn. |
| Students' Perceptions of the Use of ChatGPT: Opportunities and Challenges for Learning Indonesian as a Compulsory Subject in the Higher Education Curriculum. Pratiwi et al., (2024). Onoma Journal: Education, Language and Literature. 10 (3). 2727-2742 | Quantitative Descriptive | The results of the study indicate that students perceive ChatGPT as a helpful tool for learning Indonesian, a compulsory subject in this project-based college program. Students expressed positive perceptions of ChatGPT, citing its ease of use for completing assignments, its ability to provide additional knowledge efficiently, and the relevance of the answers it offers - leading to higher satisfaction, increased motivation, and greater engagement in learning Indonesian. However, the use of this technology requires wisdom and proper supervision to ensure that it supports educational objectives while |

| Title, Author, Journal | Method Design | Results |
|---|--|--|
| | | upholding essential human values, such as social interaction and the development of critical thinking skills. The findings suggest that lecturers should take on the role of facilitators who inspire creativity and foster students' critical thinking throughout the learning process. |
| Artificial Intelligence (AI) ChatGPT Improves Student Motivation in Morphosyntax Learning. Rosiana et al., (2023). Journal of Activities. 11 (2). 98-105. | Quantitative Experimental Design One Group Pretest-Posttest | In the fifth-semester English class that took the Morphosyntax course, the use of Artificial Intelligence (AI) through ChatGPT successfully increased students' motivation to study effectively and optimally. ChatGPT significantly assisted students in understanding Morphosyntax material easily and efficiently. When students encountered difficulties with the course content, they could simply access the ChatGPT application and input their questions - whether related to definitions, examples, real-life applications, and more. Moreover, the response time in ChatGPT is very fast, allowing students to obtain answers quickly. As a result, students felt highly motivated not only in learning but also in solving problems related to Morphosyntax topics. |
| Relationship between Nursing Students' Perceptions and Attitudes towards Using ChatGPT. The Hutapea & The Rantung (2024). <i>Journal of Innovative Research (JUPIN)</i> . 4 (2). 519-528 | Quantitative With Cross-Sectional Design | The use of ChatGPT can also serve as a source of motivation for students to learn, assist in completing academic assignments, and provide information through interactive engagement with Artificial Intelligence (AI). This interaction offers new and evolving technological experiences that continue to grow and innovate without limits. Beyond enhancing knowledge, regular interaction with ChatGPT can help nursing students become more proficient in utilizing technology. Moreover, ChatGPT is not only beneficial for students but also supports educators in facilitating teaching and learning activities. |

Based on the review of eight selected articles, there is a consistent and interconnected relationship between the use of Artificial Intelligence (AI) tools such as ChatGPT and the enhancement of student learning motivation. Farman (2024) reports that the integration of AI-based platforms like ChatGPT can significantly boost students' motivation to learn by offering faster and more accurate access to information, personalized learning assistance, increased engagement, and the promotion of learning autonomy. Similarly, Hutapea and Rantung (2024) highlight that ChatGPT supports academic activities by providing motivational reinforcement, aiding in the completion of assignments, and delivering information through interactive AI-driven interfaces, thereby offering students new and innovative experiences in a rapidly evolving technological landscape. Furthermore, ChatGPT has also proven beneficial for educators, supporting teaching and learning processes effectively.

Asnawi (2024) emphasizes that in addition to facilitating material comprehension and task completion, ChatGPT enhances students' digital literacy, functioning as a versatile tool that increases efficiency in accessing academic information and encourages more contemporary learning methods. Nevertheless, the effective implementation of AI tools requires an ethically grounded approach and strategic planning to mitigate potential challenges, particularly in higher education settings.

While the influence of AI tools such as ChatGPT on student learning motivation is

predominantly positive, ethical considerations must be carefully addressed to prevent adverse outcomes. Pratiwi et al. (2024) stress the importance of maintaining academic integrity by upholding ethical and moral standards in the use of AI technologies. Ivana and Soeherman (2024) caution that ChatGPT may introduce challenges such as difficulty in distinguishing between human- and AI-generated content, inaccuracies in provided information, and increased risks of plagiarism, academic dishonesty, reduced independent thinking, diminished writing motivation, and decreased expressive ability.

Asnawi (2024) also points out that a sense of security is vital in motivating students to use ChatGPT. The perception of stable access, coupled with confidence in ethical and responsible usage, enhances students' trust in using ChatGPT as an academic tool—especially when information verification precedes usage. Ayem et al. (2024) argue that the implementation of AI technologies in education should be conducted with careful planning and supported by clear institutional policies. Regulatory frameworks must evolve in line with technological advancements to ensure that AI tools like ChatGPT are used appropriately within academic environments.

Conclusion

Based on the review of eight peer-reviewed articles examining the impact of Artificial Intelligence (AI) ChatGPT on students' learning motivation, it can be concluded that this technology demonstrates significant and positive influence in educational contexts. The implementation of AI-powered tools such as ChatGPT enhances students' access to fast and accurate information, facilitating a better understanding of academic material and improved completion of assignments. Farman (2024) highlights that the personalized learning support provided by ChatGPT contributes meaningfully to students' motivation, interest, and engagement in the learning process. This aligns with the findings of Hutapea and Rantung (2024), who emphasized that ChatGPT not only aids in academic tasks but also introduces innovative and interactive learning experiences.

Furthermore, Asnawi (2024) notes that the integration of ChatGPT into academic settings enhances students' digital literacy, equipping them with skills relevant to navigating the demands of the digital age. However, alongside these benefits, ethical and practical challenges must be acknowledged. Pratiwi et al. (2024) underscore the importance of maintaining academic integrity, emphasizing the need for ethical and moral considerations when integrating AI tools into education. Ivana and Soeherman (2024) raise concerns about potential issues such as the difficulty in distinguishing human-written content from AI-generated text, the risk of plagiarism, and a potential decline in independent learning and critical thinking skills.

Security is also a critical aspect influencing students' motivation to use ChatGPT. As noted by Asnawi (2024), students are more inclined to use this tool when they feel confident in its ethical application and when information is verified prior to use, increasing their trust and comfort in engaging with AI technologies.

Thus, the application of ChatGPT in education should be approached with thoughtful planning and supported by clear institutional policies to maximize its benefits while minimizing possible risks. Educational institutions must also ensure that regulations evolve in tandem with technological advancements to foster appropriate and responsible use of AI.

This study affirms that AI technologies like ChatGPT serve as valuable virtual assistants in

education, contributing to enhanced student motivation through quick information access, individualized learning experiences, and improved engagement. Nevertheless, limitations exist. As noted by Hidayanti and Azmiyanti (2023), ChatGPT sometimes struggles to interpret culturally specific or local contexts, which may hinder comprehension for certain students. Moreover, excessive reliance on technology can diminish students' critical and independent thinking abilities, suggesting the need for a balanced approach that combines AI support with the cultivation of autonomous learning skills.

Recommendations for Future Research

To build upon current findings and address existing gaps, future research should explore the following areas:

- *Ethical Frameworks* Studies should focus on developing robust ethical guidelines for the responsible use of AI in educational contexts.
- Longitudinal Studies Research assessing the long-term impact of AI tools on learning behavior, academic integrity, and motivation is essential.
- Cultural Contextualization Investigations should incorporate local cultural contexts and the specific needs of diverse student populations.
- Stakeholder Involvement Engagement of educators, students, and policy-makers is crucial to create relevant and adaptable AI-based educational strategies.
- *Information Quality Policies* Research should contribute to policy frameworks ensuring the reliability and accuracy of AI-generated information.
- Educational Interventions Intervention-based studies evaluating the effectiveness of AI tools in improving academic outcomes should be prioritized.
- *Digital Literacy Development* Programs focusing on building digital literacy, especially ethical and critical AI usage, are essential for preparing future learners.

With the right approach - encompassing ethical considerations, targeted educational design, and strategic stakeholder involvement - AI tools such as ChatGPT have the potential to meaningfully enhance educational outcomes without compromising academic integrity or student autonomy.

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