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# Promotion of the Artificial Intelligence in Future Classroom: Relevance of Ai Literacy and Critical Thinking in Modern Education

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## ABSTRACT

*The emergence of educational environment goes beyond simple technological progress, for mentally transforming the learning experience. AI's function goes beyond convention mal teaching approaches, providing tailored learning experiences and catering to variety of educational requirements. it improves educational practices, fostering key skills like computation robotics . This article prepares for an in-depth analysis of AI's influence in contemporary education. It highlights the importance of a comprehensive grasp of AI literacy, and critical thinking abilities, exploring their effects, challenges, and prospects in influencing the future of education. While earlier studies have suggested the significance of acknowledging AI's role in education and proposed initial frameworks (Chan, 2023), the current analysis argues that two essential skills are vital for the future of learning in a world that embraces AI. Consequently, this paper is a theoretical exploration of the optimal ways to incorporate AI into the classroom, emphasizing higher education. Although this suggests that it is mainly applicable to adult learners, it is thought to also be beneficial for kids.*

**Keywords:** Artificial Intelligence, Critical thinking, AI Literacy, Classroom.

## INTRODUCTION

In the changing landscape of education, incorporating Artificial Intelligence (AI) signifies a revolutionary change, marking a new phase in teaching and learning approaches. This

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piece explores the diverse functions of AI in educational settings, emphasizing especially the importance of prompt engineering, proficiency in AI, and the development of critical thinking abilities. The emergence of educational environment goes beyond simple technological progress, for mentally transforming the learning experience. AI's function goes beyond conventional teaching approaches, providing tailored learning experiences and catering to variety of educational requirements. it improves educational practices, fostering key skills like computation robotics. Additionally, AI has demonstrated considerable potential in delivering prompt support for children with special educational requirements , enhancing both their educational experiences and every day activities. (Zawacki-Richter et al., 2019).

Technologies in information, especially artificial intelligence (AI), are transforming contemporary education.

Several uses of AI in education have developed. For example, Khan Academy provides Khanmigo, an AI tutor utilizing GPT-4 features, offering tailored educational assistance and smart feedback in multiple areas, such as math, coding, and language studies. Likewise, Duolingo, a platform for language acquisition, employs advanced AI technologies to enhance the experiences of learners (Bicknell et al., 2023). FlyTek provides smart evaluation systems designed for different grading situations, such as China's national college entrance exam (iFlyTek, 2024). AI-enhanced learning management systems (LMS), including Absorb LMS and Docebo, provide various AI functionalities to aid educational activities, like smart content generation, automation of administrative tasks, and customized learning experiences (Leh, 2022).

This article prepares for an in-depth analysis of AI's influence in contemporary education. It highlights the importance of a comprehensive grasp of AI literacy, and critical thinking abilities, exploring their effects, challenges, and prospects in influencing the future of education. While earlier studies have suggested the significance of acknowledging AI's role in education and proposed initial frameworks (Chan, 2023), the current analysis argues that TWO essential skills are vital for the future of learning in a world that embraces AI. Consequently, this paper is a theoretical exploration of the optimal ways to incorporate AI into the classroom, emphasizing higher education. Although this suggests that it is mainly applicable to adult learners, it is thought to also be beneficial for kids

## THE EMERGENCE OF AI IN EDUCATION

The launch of ChatGPT (currently one of the most advanced ChatGPT, a cutting-edge AI chatbots developed by OpenAI, in November 2022 is greatly changing significantly altering the educational education landscape, signaling marking the beginning of a new age era in the methods of learning and teaching.

Additionally, LLMs have demonstrated significant ability in assisting students with special needs. They offer tailored tools and resources that address various learning difficulties, enhancing accessibility and inclusivity in education (Garg & Sharma, 2020). Learners who

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may have struggled to keep pace in traditional classroom environments can now take advantage of AI's capacity to customize content and presentation to their unique requirements, thus dismantling obstacles to education and promoting a more inclusive learning environment (Rakap, 2023).Integrating language models, such as GPT, into educational systems offers more than a mere enhancement; it may eventually become a crucial element of modern teaching and learning methods. Embracing this AI-centric approach comes with certain challenges, yet its benefits for students, instructors, and the broader educational system are substantial, as highlighted in comprehensive studies by Farhi et al. (2023), Fullan et al. (2023), and Ottenbreit-Leftwich et al. (2023). ChatGPT integration in educational settings marks a significant step forward in creating a more tailored, diverse, and successful learning environment, preparing students for both the current academic demands and the evolving needs of the future.

## METHODOLOGY

This paper engages in a theoretical discussion about the suitable use of AI in relation to the necessary skillset involved. The information is based on extensive informal discussions with students and educators at the Department of Economics from one university, specifically the Central university in Delhi, as well as the author's own teaching experience there. The objective of a narrative literature review is to gather supplementary information, clarification, and optimal methods to improve comprehension, ultimately yielding actionable suggestions for higher education. Informal conversations with students and staff were unstructured and gathered where possible in the early days of AI adoption to compile a comprehensive and reliable portrait of the overt and subtle views, apprehensions, opportunities, and typical usage of the technology.

As a result, the program incorporated a variety of discussion formats, including teacher-student dialogue in classrooms with multiple classes, student-led discussions in the main room and smaller groups, one-on-one conversations with students during breaks, lunch meetings with professors and teachers, and the collection of written correspondence on the topic during university meetings. When considered collectively, this information was sufficient to develop a cohesive comprehension of the current climate regarding attitudes and applications of AI.

## AI IN THE CLASSROOM

Artificial Intelligence has a broader relevance, extending beyond paper creation, and also possesses the potential to develop innovative classroom experiences. Despite being relatively uncommon for educators to fully embrace and integrate AI in their classroom teaching, a few have already taken the initiative and implemented the technology in various forms.Conversations with teachers have revealed that their reluctance to use AI tools in the classroom stems primarily from a lack of knowledge about them and concerns that they will

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misuse them if employed. Meanwhile, students may lack proficiency, and if teachers do not view themselves as professionals, this worsens the situation. Despite ICT being an extremely relevant topic that receives a considerable amount of attention in the scientific community, practitioners frequently fall behind as there are currently no workshops or programs available to assist both teachers and students in enhancing their skills in this area. As digital advancements and AI technology are evolving at a rapid pace, many people believe that it is extremely challenging to keep up with the latest developments.

**Several recommendations could assist in addressing these issues and potentially cultivate an AI-driven culture within classrooms.**

The school could offer workshops designed to inform teachers about AI developments and the educational tools available to support the creation of an inclusive classroom environment that incorporates AI.

Regular Updates: Outlets such as newsletters, lunch meetings, and online events could be used to keep staff and lecturers informed about the latest tools, apps, and approaches that are beneficial for their lectures. Currently, the school does not offer financial assistance for training on AI subjects, so if staff members wish to take action, they must do so independently. A budget should be allocated to support employee education in their field of work. It would be mistaken to assume that employees would have to be asked to acquire a language or another crucial skill, such as operating a student administration system, solely in their personal time without any financial support. Currently, however, the institution's situation with AI is this. Yet, at the moment this is how the institution is faring with AI.Currently, aside from the "AI guidelines" for students, there are no written guidelines, tips, tricks, or suggestions for utilizing AI effectively in the work and school environment available. They could offer some guidance.

It would be prudent to establish paid roles that combine the benefits of internal "freelancers" driven by intrinsic motivation with the expertise of external specialists who can influence AI culture within the institution. This aligns with the third proposal indicating that AI would require a budget.

## AI LITERACY IN THE CLASSROOM

AI literacy is now a fundamental aspect of modern education. At its core, it revolves around grasping and being able to interact efficiently with AI technology. It involves not only technical expertise but also an understanding of the ethical and social consequences of AI. In today's classrooms, AI proficiency extends far beyond conventional educational frameworks, empowering students with the abilities to explore and reap the benefits of AI in numerous areas of life and career. This marks a fundamental change in education, with comprehending AI being as important as reading, writing, and arithmetic (Zhang et al., 2023).



Policymakers and educators are now acknowledging the significance of AI literacy and incorporating it into curriculums and educational approaches (Casal-Otero et al., 2023; Chiu, 2023). This integration is still in its early stages, with schools looking at different methods to teach this complex and constantly changing set of skills. The difficulty arises in conveying not only technical information but also in cultivating a more profound comprehension of AI's far-reaching influence – whether it affects a social, psychological, or economic sphere.

## AI ETHICS

Comprehending the fundamental principles of AI, its constraints and hazards, as well as its potential applications and pitfalls, should result in a thoughtful comprehension of its ethics. Both students and teachers should cultivate a sense of justice that guides them in finding a virtuous way to implement AI models in educational contexts.

Research has demonstrated that early introduction to technology concepts can have a substantial impact on the career trajectories and readiness for the future of students (Bembridge et al., 2011; Margaryan, 2023). Introducing AI literacy to students at a young age establishes a basic understanding which lays the groundwork for more complex learning and practical use in subsequent educational and career phases. It is essential that a generation adopts AI literacy early on, enabling them to not only effectively utilise AI but also innovate and take charge in an increasingly technology-driven environment. Acquiring AI literacy at schools and universities should be a fundamental aspect of every student's education. In addition to academic success, its purpose encompasses preparing students for a future where AI is widespread. Across careers ranging from science and engineering to arts and humanities, an understanding of AI will be a highly valuable asset, allowing individuals to work effectively and ethically alongside AI technologies. In this context, AI literacy is not only an educational goal but also an essential life skill for the twenty-first century. An overview is provided of machine learning, a core part of AI, which is understood through its technical foundations and machine learning. Understanding this involves grasping various machine learning types (supervised, unsupervised, reinforcement learning) and fundamental algorithms. This can also be enhanced through more technical underpinnings, such as an introduction to programming with artificial intelligence.

Effective Data Management: Examining the significance of data in AI, how AI systems are trained with data, and measures to safeguard against data theft and privacy issues.Real-world applications of artificial intelligence are being implemented in fields including healthcare, finance, transportation, and entertainment, as discussed in AI in Practice. The implications of AI implementation should comprise its advantages and difficulties.

Understanding Human-AI Interaction: This involves exploring how humans and AI systems can collaborate effectively, encompassing subjects such as human-in-the-loop systems, AI augmentation, and the potential future of work with AI.Exploring the role of artificial

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intelligence in creative processes, including art, music, and writing, and examining the consequences of AI-generated content.An overview of the regulatory and policy landscape surrounding AI is provided, encompassing discussions on AI safety, standards, and international perspectives. Hands-on experience involves practical exercises, case studies, or projects that enable students to implement AI concepts and tools in real or simulated settings. The principles of designing and developing AI involve creating ethical, responsible, and sustainable systems. This also encompasses the risk of biased AI and its effects on society. Making AI literacy accessible to everyone involves adapting content so that it is comprehensible to individuals from a wide range of backgrounds, rather than just those with a technical or scientific background. The teacher guides students in exploring scenarios, highlighting potential areas of difficulty. Explicit reflection: The teacher helps students to think through certain scenarios and where the potential pitfalls lie. The teacher gives qualitative feedback, acknowledging students' good work and providing a review of their progress. Praise and feedback: The teacher provides acknowledgments where good work has been done and gives a qualitative review on how the student is doing. The teacher recommends different approaches for students to effectively collaborate with AI, promoting its responsible use. Modifying activity: The teacher suggests alternative strategies how students can beneficially work with AI, thereby fostering responsible use. Clear instructions and defined tasks enable students to learn how to use AI effectively and navigate the digital world. Direct instruction: Through providing clear tasks and instructions, students learn how to navigate the digital world and how AI can be used.

## SUMMARY OF MAIN CHALLENGES AND OPPORTUNITIES OF AI IN EDUCATION

Education significantly benefits from and is also challenged by the integration of artificial intelligence. Among the key challenges are the ongoing requirements for professional development of educators in both AI technologies and pedagogical practices. Curricula need to be restructured to include AI literacy, and teachers require training in AI integration and prompt engineering. This multidisciplinary approach incorporates computer science, ethics, and critical thinking. AI developments are advancing at a rapid pace, which may cause educators to fall behind, ultimately resulting in potential classroom management problems if students gain more knowledge than their teachers.

Providing equal access to AI technology is vital to close the digital gap and avert educational disparities. Investing in technology and fair access policies is essential, particularly for disadvantaged regions. A further challenge lies in preventing AI biases, necessitating the use of diverse, inclusive training datasets and educating educators on bias recognition. It's crucial to strike a balance between AI use and human interaction to prevent social isolation and foster the development of social skills.

Integrated education opportunities with AI include personalized learning systems that adapt to individual students' needs, accommodating different learning styles and cognitive

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states. Artificial intelligence can provide assistance to students with special requirements, such as language processing or sensory impairments, via resources like AI-driven speech recognition systems. Development of ethical AI requires a focus on transparency, unbiased content, and privacy-respecting practices. Artificial intelligence facilitates creative content distribution, including virtual and augmented reality, and assists in educational management and policy development. This promotes collaborative learning, linking students worldwide and overcoming cultural differences.

## ENHANCING AI LITERACY

A nuanced approach is essential in the quest to boost AI literacy in the classroom and academic settings. Developing AI literacy courses would be a valuable asset. The existing curriculum should incorporate these courses, which would cover key AI concepts, ethical factors, and real-world applications. It is essential to adopt an interdisciplinary approach, incorporating AI literacy across diverse subjects to demonstrate its far-reaching effects. The significance of AI as an educational resource in future education systems should not be disregarded. Personalized learning can be transformed by incorporating AI-driven educational tools, adapting to students' unique learning styles and requirements. Machine learning algorithms can also perform the role of a teaching assistant, helping with grading, providing feedback, and creating engaging interactive learning activities. In addition, its contribution to research and project-based work should be promoted, enabling students to employ AI for data analysis and the exploration of novel concepts, while cultivating a critical and ethical mindset.The proficiency of an educator in AI is equally crucial. Providing ongoing training and workshops for educators will keep them informed about the current developments in AI technology. Setting up peer learning networks and collaborations with AI specialists can close the divide between theoretical knowledge and real-world application, making education more engaging. At the heart of these initiatives is the promotion of a critical and ethical perspective on AI. Contemplating AI's societal impact should be a crucial aspect of the learning process, incorporating ethical discussions. Case studies and hypothetical scenarios can be used to investigate the potential advantages and difficulties of AI implementations. Additionally, evaluations in AI literacy should assess not only technical expertise but also the capacity to critically assess the role and influence of Artificial Intelligence. The collaboration between lecturers and students is crucial for the effective integration of prompt engineering into the educational system. Collaborative sessions conducted across the entire class, where both students and **teachers'** team up, can be highly effective in experimenting with various prompts. These sessions should concentrate on determining which types of prompts produce the best outcomes for various learning objectives and AI applications. Exchanging knowledge on what is effective and what is not can foster a shared comprehension and improvement of methods. These collaborative exercises also promote a community of learning, where both teachers and students benefit from each other's achievements and obstacles. Developing exercises for every educational module that use prompt engineering techniques is a further

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crucial step. The exercises should be created to align with the module's learning objectives, giving students practical experience in using prompt engineering to address problems or explore subjects. In a literature class, students could employ prompt engineering to either dissect a text or develop thematic interpretations. In science classes, prompts can be created to explore scientific concepts or to solve intricate problems. These exercises should motivate students to experiment with various types of prompts, comprehend the subtleties of each, and note how slight changes in phrasing or context can modify the AI's responses.

## CRITICAL THINKING WITH AI IN THE CLASSROOM

Workshops can be a valuable resource for developing critical thinking abilities within contemporary educational settings. These workshops should concentrate on the technical aspects of AI, as well as cultivating critical thinking skills within the context of AI usage. Hands-on activities should be incorporated, allowing students and teachers to interact with AI tools, examine their results, and evaluate their dependability and usefulness. These workshops may also address topics like detecting biases in AI systems, understanding the constraints of AI, and assessing the moral consequences of AI choices. Case studies have a crucial part to play in grasping the ethical ramifications of AI. They should be carefully chosen to encompass a broad variety of situations in which the ethical implications are prominent. Students can use these case studies to look at real-world scenarios where AI decisions result in substantial consequences, prompting them to consider the ethical and societal implications of AI technologies. Students should be encouraged to engage in discussions that promote debating various viewpoints, creating a setting where critical thinking and ethical decision making are valued. Creating institutional pathways for students and teachers to address their AI-related issues is vital for cultivating a culture of open communication and ongoing education. These channels can serve as a conduit for ideas, concerns, and experiences with AI, facilitating their shared discussion and exploration. This could take the form of online forums, regular get-togethers, or suggestion boxes. These platforms can serve as incubators for novel ideas on the responsible and effective use of AI in educational contexts.

Adopting AI in educational settings requires a culture shift. This culture should be founded on the principles of responsible AI use, ongoing learning, and critical interaction with technology. This entails not only the deployment of AI tools but also the creation of a culture that supports the questioning, exploration, and critical evaluation of AI. The culture should be present throughout the entire institution, including policy development and classroom activities. Encouraging students to examine and explore the potential and boundaries of AI can result in a more profound comprehension and sensible utilization of these technologies. This encompasses facilitating conversations on subjects such as AI's influence on job markets, privacy issues, and the implications of AI in decision-making procedures. Encouraging critical thinking about these topics enables students to gain a

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more detailed understanding of AI, thereby providing them with the skills required to navigate a world that is heavily influenced by AI.

## CONCLUSION

The AI in education is marking a transformative era that is fundamentally redefining teaching and learning methodologies. This paper has thoroughly investigated the extensive role of artificial intelligence, with a close look at the subtleties of AI literacy, prompt engineering, and the cultivation of critical thinking skills within the educational environment. As we move into this new paradigm, the path, despite offering unparalleled opportunities, is marked by considerable challenges that require thoughtful consideration and thoughtful strategies. One of the most compelling prospects provided by artificial intelligence in education is the personalizing of learning experiences. This technology has demonstrated considerable potential in facilitating education for students with special requirements, thereby increasing inclusivity and accessibility in learning settings. Furthermore, the emphasis on AI literacy, prompt engineering, and critical thinking skills readies students for the intricacies of a technology-driven world, supplying them with fundamental competencies for the future. These progressions also create their own set of difficulties. A major concern is the preparedness of educators in this rapidly changing AI environment. Ongoing and all-encompassing professional development for educators is vital to guarantee that they can successfully incorporate AI technologies into their teaching methods. Of equal significance are the ethical and social consequences of AI in education. Implementing AI systems requires a rigorous examination of potential biases, adequate safeguards for user privacy and security, and the promotion of responsible practices. A major obstacle is the availability of AI resources. It is essential to ensure equal access to these tools in order to stop the increase in educational inequalities. It is essential to cultivate a critical perspective towards AI among students and educators in order to utilise these technologies in a responsible manner. The most critical concern is that both students and educators rely on AI systems without acknowledging their constraints, such as the possibility that they frequently provide inaccurate information while presenting it in a convincing manner.

Looking towards the future, several research and development avenues present themselves as critical to advancing the integration of AI in education:

Future research should investigate effective strategies for incorporating AI literacy into curricula at multiple educational levels and subject areas. Curriculum Integration: Future research should explore effective methods for integrating AI literacy across various educational levels and disciplines. Longitudinal research is necessary to evaluate the long-term effects of AI integration on academic achievement, teacher performance, and student mental health. Up until now, this has not been achievable owing to the cutting-edge nature of the technology. So far, this has not been possible due to the novelty of the technology. The future of education, enhanced by AI, has tremendous potential, and navigating its intricacies with a focus on responsible and ethical methods will be essential to achieving its full potential. The current

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study has proposed that this can be efficiently achieved, among other things, by implementing AI literacy, expertise in prompt engineering, and critical thinking skills.

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