



Artificial Intelligence In Education: Opportunities, Challenges and Future Pathways

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Abstract

In the era of rapid technological advancement, Artificial Intelligence (AI) has emerged as a transformative force across multiple sectors, particularly in education. In the Indian context, this transformation aligns closely with the objectives of the National Education Policy (NEP) 2020, which emphasizes skill development, technological integration, and holistic learner growth.

This study examines the transformative impact of AI on conventional teaching methodologies and explores how AI integration contributes to skill enhancement, employment generation, and the practical application of theoretical knowledge.

The paper highlights the role of AI-driven tools such as MindMeister and ChatGPT in enhancing students' attention, critical thinking, creativity, and technological adaptability. While acknowledging challenges, particularly the potential displacement of unskilled labour due to automation, the study argues that long-term national development benefits outweigh these concerns. The findings suggest that AI-enabled education fosters a practical, innovation-oriented mindset among youth and prepares them for emerging employment opportunities. As national progress largely depends on the capabilities of its younger generation, AI-driven educational transformation serves as a strategic pathway for sustainable socio-economic development.

