



Artificial Intelligence in Education: Exploring Challenges and Future Pathways for Teaching and Learning

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Abstract

Artificial Intelligence is an emerging technology in the educational sector. It significantly enhances the efficiency of both teaching and learning and facilitates the achievement of learning outcomes. It fosters individualised, efficient, and interactive learning environment by integrating algorithms, machine learning and data analysis approaches. Artificial intelligence streamlines administrative duties, improves instructional techniques, increases students' engagement, offers individualised learning experiences and completely transforms the teaching and learning process. AI has been a great help to educators, parents, and students. It helps educational institutions to elevate educational quality, support universal access to education, lessens administrative burdens. However, various issues such as ethics, data privacy, teacher preparedness, moral dilemmas, and socioeconomic access gaps, and digital inequality have emerged with increasing use of AI in the classroom. The present paper is an attempt to explore challenges posed by artificial intelligence and future pathways in the field of education.

