Assessing AI readiness in education: A comprehensive analysis

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Abstract

Artificial Intelligence (AI) has gained significant global attention owing to its advancements and potential advantages across various sectors. The education sector stands out as an important domain actively reflecting the integration of AI approaches and recognizing its transformative potential. This research aims to assess the readiness of educational institutions, to adopt and leverage AI technologies effectively. The study employs a multidimensional framework, encompassing technological infrastructure, institutional policies, pedagogical strategies, and stakeholder perspectives. Through a combination of quantitative and qualitative methods, we will analyze the current state of AI readiness in a diverse sample of higher education institutions.

The research investigates the readiness of existing infrastructure to support AI applications, and the alignment of institutional policies with emerging AI trends. The study explores the integration of AI tools in teaching methodologies, examining how educators perceive and incorporate AI in their practices. The research also considers the perspectives of students, and educators to the overall acceptance and understanding of AI in the educational ecosystem.

Findings from this research contribute to a deeper understanding of the challenges and opportunities associated with AI in education. Recommendations based on the assessment aim to guide educational institutions in developing strategic plans for AI integration, ensuring a seamless transition toward a technologically advanced and pedagogically enriched learning environment. The study aims to inform researchers, educators, and stakeholders about the current landscape of AI readiness in education and foster discussions on the future role of AI in shaping the educational landscape.

Key words

artificial intelligence, digital transformation, educational landscape, higher education, research methods

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