



Use of Artificial Intelligence (AI) in Teaching and Learning NEP 2020

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Abstract

There is a major change in Indian educational system which is represented by the National Education Policy (NEP) 2020, which places a strong emphasis on integrating technology to improve learning and learning results. Artificial Intelligence (AI), which has the potential to improve education in a number of ways like teaching methodology, learning styles etc. In order to know that what is the use of AI in teaching and learning and this study investigates the crucial role of AI in the implementation of NEP 2020. Examining AI's function in digital infrastructure, adaptive systems, personalised learning, and its influence on teaching and learning outcomes in both higher education and schools level. Additionally, it demonstrates how AI can be used in school governance through administrative support systems and predictive analytics. The study explores how AI can be included in robotics, data science, and coding courses as well as AI support to enhance the teaching learning process. The paper also discusses the difficulties and moral dilemmas associated with AI in education, namely those pertaining to algorithmic bias, data privacy, and the digital divide. It is suggested that AI literacy and teacher training are crucial for the effective use of AI. Additionally, the study highlights the potential of AI in education going forward and offers solutions for improving AI tools, encouraging inclusive education, and strengthening public-private sector collaborations.

