

Role of Artificial Intelligence (AI) in NEP 2020

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Abstract: *A major change in India's educational system is represented by the National Education Policy (NEP) 2020, which places a strong emphasis on integrating technology to improve learning results. Artificial Intelligence (AI), which has the potential to improve education in a number of ways, from personalized learning to governance, is a crucial part of this shift. In order to comprehend how AI may be incorporated into educational practices and institutions, this study investigates the crucial role AI plays in the implementation of NEP 2020. Examining AI's function in digital infrastructure, adaptive systems, personalized learning, and its influence on curricula in both higher education and schools is part of the study's scope. 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 into robotics, data science, and coding courses as well as AI-powered virtual labs, simulations, and smart classrooms. AI supports research, innovation, and the creation of innovative instructional technologies at the tertiary level. Furthermore, examined is AI's contribution to the National Educational Technology Forum (NETF), highlighting its significance in advancing legislative ideas along with the goals of NEP 2020. 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.*

Keywords: Artificial Intelligence (AI) in Education, Personalized Learning, Adaptive Learning, E-learning Platforms, AI-driven Assessment and Evaluation

