



## **Impact of Artificial Intelligence on Teacher Training and Professional Development under NEP 2020: A Review**

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### **Abstract**

Artificial Intelligence is now a potent instrument for transforming the educational system in our digital world. It has significantly influenced teaching methods, learning processes, and professional development practices. The National Education Policy (NEP) 2020 has substantially promoted the integration of technologies like artificial intelligence in order to ameliorate the norms of school teacher

According to NEP 2020, this review article examines the effects of artificial intelligence on teacher training and professional growth. It examines how advancements in virtual classrooms, learning analytics, intelligent tutoring systems, adaptive learning platforms, and AI-based technologies have transformed teaching strategies and educational methodologies. The study also shows how AI facilitates personalized knowledge, nonstop evaluation, and the ongoing professional development of preceptors.

The research also examines the major advantages, challenges, and constraints of using artificial intelligence in teacher training schools. Topics covered include data security, digital literacy, ethical concerns, resistance to technological progress, and a lack of sufficient technological infrastructure. The review concludes that there's a large eventuality for artificial intelligence to ameliorate school teacher education and professional development programs. Still, careful drug, respectable training, and ethical execution are still necessary for long- continuing and successful issues.

