



## **Role of Artificial Intelligence in Teacher Education and Professional Development**

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### **Abstract**

In this digital era Artificial intelligence is considered a major driver of educational innovation by redefining the traditional teaching models in India. AI technology revolutionize the field of education especially teacher education which focus on teacher's roles and their professional development. Integration of AI Technology in teacher education enhancing the effectiveness and efficiency of teacher's skills in a positive manner. This tailored approach also enhanced improved pedagogical methods and effective classroom outcomes by providing personalized training, automating administrative tasks that consume much time; and provide real- time which helpful in enhance pedagogical skills among teachers. Various opportunities by AI offer professional learning, real time feedback and virtual coaching; ultimately reducing workload of teachers and fostering innovative student centered teaching approaches. This paper throws light on, how AI can improve the quality of teacher Education by enhancing teacher's skills as well as various challenges and drawbacks of this approach.

