

## The Role of Artificial Intelligence in Redefining Global Standards for Teacher Education

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### Abstract

Integrating Artificial Intelligence (AI) technologies into teacher training is radically transforming the practice of teaching and learning. AI technologies have the capacity to integrate myriad AI technologies into one-stop shops, alleviating many cultural and policy inconveniences that have affected the socio-political and geographical confines of teacher training systems on an eco-national scale. This article illustrates how AI tackles inclusivity and efficiency challenges in different education systems while examining critically the existing imbalances such as divides associated with a lack of literacy, ethics, and infrastructural disparity, versus the potential of AI's ubiquitous intelligent tutoring systems, automated testing, and adaptable learning devices to afford balance. Testifying to the merits to be reaped from applying new tech in teacher preparation, AI-powered analytics and virtual classrooms are revolutionizing curriculum design, delivery, and assessment. Envisioned for the foreseeable future, the paper AI uncharged to construct globally synchronized frameworks of qualifying teaching masteries would amplify teacher artistry with instantaneous praise and unremitting mentorship fostered continual education. On the basis of a rigorous analysis of historic trends, contemporary issues, technological possibilities, and future potentialities, this study highlights the pivotal role of AI in remaking and globalizing teacher education for the 21st century.

*Keywords: Artificial Intelligence, Teacher Education, Global Standards, Educational Innovation, Future of Teaching*