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## Editorial

The integration of Artificial Intelligence (AI) in teacher education presents both opportunities and challenges. On one hand, AI can enhance teaching-learning dynamics, facilitate personalized learning, and promote critical thinking, problem-solving, and creativity. However, several challenges need to be addressed, including infrastructure and resource constraints, inadequate practical training, outdated curricula, lack of qualified teachers, and professional development needs.

To overcome these challenges, capacity building, infrastructure development, curriculum reform, and researcher-teacher partnerships are essential. Capacity building involves providing training and support for teachers and educators to develop necessary skills in AI-infused pedagogy. Infrastructure development requires upgrading infrastructure in teacher education institutions to support modern teaching methods and AI-powered solutions.

Curriculum reform is also crucial, involving revising curricula to align with modern teaching standards and incorporate AI-infused learning experiences. Researcher-teacher partnerships can facilitate the co-design and implementation of AI-powered solutions, ensuring that they meet the needs of teachers and students.

Moreover, a human-centered approach to AI design and development is vital, prioritizing teacher needs and perspectives. By addressing these challenges and leveraging opportunities, teacher education can be transformed to prepare educators for the AI-infused future. This can lead to improved student outcomes, enhanced teaching-learning dynamics, and a more effective education system.

Ultimately, the effective integration of AI in teacher education requires a multifaceted approach that addresses the complex needs of teachers, students, and the education system as a whole. By working together, educators, researchers, and policymakers can harness the potential of AI to create a more inclusive, effective, and sustainable education system.

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(Prof. R.K. Shukla)  
Volume Editor

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