

Smart Education Ecosystems in India: Role of Technology and Computer Science in Building a Global Education Hub India

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Abstract

India is progressively developing smart education ecosystems that integrate technology and computer science to enhance the quality and reach of higher education. The use of artificial intelligence, machine learning, cloud computing, and digital platforms is enabling the creation of intelligent, adaptive, and student-centered learning environments. This paper explores the role of these technologies in building a globally competitive education hub in India. It highlights how smart education systems improve teaching effectiveness, learning outcomes, institutional efficiency, and research capabilities. The study also addresses challenges such as digital inequality, infrastructure limitations, and the need for faculty upskilling.

Keywords:

India, smart education ecosystem, computer science, educational technology, artificial intelligence, machine learning, cloud computing, digital learning, higher education, ICT integration, global education hub