Chapter 15

The Future of Vocational Learning in India:
How Artificial Intelligence and Creativity Will Shape Learning of Skills in 2030

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ABSTRACT

The integration of emerging AI technologies in vocational education and learning will have a significant impact on the learning of skills in India by 2030. Artificial intelligence-based tutorial and simulation systems can provide personalized learning experiences to students, allowing them to learn at their own pace and level of understanding. This can greatly enhance the effectiveness and efficiency of vocational education, leading to better learning outcomes and higher employability of graduates. Overall, the integration of AI technologies in vocational education and learning has the potential to transform the way skills are learned and acquired in India. By leveraging the power of AI and creativity, students can develop the skills and competencies needed to succeed in a rapidly evolving and increasingly competitive job market.

INTRODUCTION

The future of work is a rapidly evolving and complicated issue as a result of the emergence of automation, artificial intelligence, and other technological advancements. The World Economic Forum (WEF) estimates that by 2025, technology will eliminate 85 million jobs while creating 97 million new positions requiring a variety of skill levels. This shift in the job market has an impact on vocational education since both teachers and their students must adapt and learn new skills in order to stay relevant. This article discusses the application of artificial intelligence and creativity in vocational education, while also recognizing the relevance of critical thinking and other essential skills that will remain relevant, in order to prepare students for the workplace of the future.

OPERATIONALIZATION OF TERMS

Artificial Intelligence

Artificial intelligence (AI) is the ability of machines to perform activities that often require intelligence comparable to that of a human, such as learning, problem-solving, decision-making, and language processing. Artificial intelligence (AI) systems are capable of making predictions or offering recommendations, as well as analysing and interpreting large amounts of data. AI technology is fast evolving and has a wide range of applications in sectors like healthcare, banking, transportation, and entertainment.

Vocational Learning

The goal of vocational education is to provide students with the knowledge and skills necessary to succeed in a particular trade, profession, or vocation. In order to prepare students for jobs in industries like technology, healthcare, construction, and hospitality, among others, vocational education frequently offers hands-on instruction and experience. It is frequently provided through technical institutions, community colleges, and vocational schools, and it could include an apprenticeship or on-the-job training. Vocational education can be a useful route to joining the workforce or moving forward in a chosen career. It can result in a number of credentials, such as certificates, diplomas, or degrees.

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