


Chapter 6


Artificial Intelligence in Skill Development

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ABSTRACT

This chapter explores the impact of AI on professional development, education, and the pharmacy industry. AI systems enable creative language use without a computer, transforming traditional tutoring centers into iterative learning processes. AI tools also develop skills to new accessibility standards and cater to individual learner needs. In medicine and pharmaceutical industries, AI provides tailored learning paths, content delivery, and feedback through computer simulations. It also offers

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technology solutions for soft skills training, such as communication and leadership. However, the chapter addresses ethical questions and challenges, such as data privacy, de-biasing AI algorithms, and closing digital divides. The chapter provides insights for educators, healthcare workers, and technology practitioners on how to maximize AI's potential for comprehensive learning and skill development. The chapter aims to re-assess the potential of AI in the skills business for integration.

1. INTRODUCTION:

These include a wide variety of technologies and techniques: artificial intelligence, especially artificial neural networks (ANN), natural language processing and robotics. Open to new input data, and steadily improving accuracy of the resulting output. In line with the processes such as learning, reasoning and problem-solving AI has the purpose of doing all of them better, (Garg 2021). Indeed, today AI is progressing rapidly though it calls for dynamics in algorithms, computation, and provision of large data sets. This is radical in the broadest sense of the term. Rebas-ing across other fields of applications the above work by Jaboob et al. was revisited across various fields of application in 2024.

In that sense, the nature of the phenomena that are analysed shows that more and more professions are changing or being developed, meaning that learning and skill enhancement remains a continuous process. Still, the traditional educational model experiences a lot of difficulties in adjusting to these changes. The result is the lack of necessary skills supply and demand where employers demand specific skills that various employees are unable to provide (Behera & Gaur, 2022). It is thought that skill development is mandatory for the individual, advancement and enhancement of one's career and the corporate modern competition and for the macro level advancement of the contemporary national economy. In this way, we are all a winner and ensure that today's much fought and won upward turn has a continuity tomorrow (McGrath, 2002; Raninga, 2024).

Artificial Intelligence combine the development of skills and the application of ways: AI provides different ways and means to Though it takes a couple of attempts before people fully get acquainted with their new 'helpers,' that are AI-based personal assistants, people now have many-fold higher ROI on the time they spend Analyses of the market are conducted solely on AI-based tools. Favoring both efficiency and engagement: Design is indeed about this Style is also successful (Behera et al., n. d. ; Shiohira, 2021). As soon as educational content compresses but does not saturate the leaner, Then all users if willing to learn can claw their way to the top as best they can at their level (Ardichvili, 2022; Bukartaite & Hooper, 2023). Their aim and methods altered only when the aim of each institution of higher education for

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