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A Smarter Way To Learn Using AI

Artificial Intelligence is turning education into a system in which learning is a one-size-fits-all model a personal learning experience. With the transformation of classrooms into digital ecosystems, AI is creating new possibilities students and teachers in Pakistan.

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Introduction

Traditional teaching approaches are usually ineffective in addressing the needs of the contemporary students as education is the pillar of the development of any state. In most classrooms, the students who have varying abilities are taught in a similar fashion resulting in gaps in performance and comprehension. Artificial Intelligence (AI) is becoming a potent proposal to this problem.

Using AI, students can learn at their pace and in accordance with their needs by providing personalized learning. This is of particular concern to Pakistan, where the disparity in the level of education in urban and rural areas has been a significant problem. As more people have access to the internet and go digital, AI can revolutionize the education system in Pakistan. It can assist students in remote locations to obtain high-quality learning materials and teachers teach more effectively.

"Artificial Intelligence is very useful tool for the students in their education in this current digital era."

Technology Overview

Artificial Intelligence in education can be described as the application of intelligent systems which process data and enhance learning. Such systems consist of AI tutors, chatbots and automated grading systems and adaptive learning systems. To give an example, a learning system created by AI can monitor the performance of the student and show problem areas. In case a student has a problem with a certain subject such as mathematics, the system is capable of giving the student more exercises, explanations and even feedback. They are able to respond to the questions of students in real time, and offer assistance at any time and place. This comes in handy especially to students who might not have the teachers at their disposal even after school.





Figure 1: Smart classroom powered by AI. Credit: Google

Key Findings & Impact

Studies indicate that AI-based education systems have the ability to enhance the performance of students by 30%. Individual learning makes students better comprehend and have concepts in their mind longer. As more people have access to a smartphone and the internet, AI technologies can be applied to students in remote and underserved locations.

This will assist close the urban-rural education system gap. Automated grading and performance tracking enables the teacher to concentrate more on teaching and mentoring students. Nevertheless, some difficulties which must be resolved exist. Irrespective of these challenges, the future looks bright. The tech sector in Pakistan is slowly advancing to digital transformation and AI in education is entering this process.

What's Next?

The future of learning will be an integration between the traditional education and the advanced AI technologies. Learning will be more interactive and personalized and the classroom will be more interactive. In the near future, the students can access AI tutors 24/7, virtual reality classrooms, and personalized learning paths. Such innovations can enhance education to be more effective and accessible to all. It will be able to create a talented labor force, enhance literacy, and empower the nation in the tech sector worldwide.

About the Author

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