THE ROLE OF AI IN DIGITAL ERA

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Abstract:

This review paper looks with an overview of role of AI in education during the digital era. During the time of COVID-19 the usage of AI has increased rapidly. The paper helps us to highlights the benefits of AI in education sector like learning, teaching and ethical concerns associated with it.AI is a crucial factor in educational development and some threats are associated with it like safety, security and most important privacy. As a consequence, AI technologies positively and negatively affect the education sector.

Keywords: Artificial intelligence, Education, COVID-19, Ethics, Teaching, Digital era

Introduction:

Our lives have been transformed after the beginning of the digital era. This period has transformed our lifestyle, working, and learning. Following the adoption of technology and the rise in literacy with recent technological advancements, the education sector has led to the evolution and expansion of new teaching and learning techniques which includes the use of Artificial Intelligence i.e., AI. AI has the potential to revolutionize education and teachers must include it. Technology in students learning. AI can play a crucial role in providing personalized learning experiences, automation of administrative tasks, and improving student results. With manifold applications such as intelligent tutors for content delivery, response provision and progress management, the area of AI has denoted advancement with innovations in both technical and theoretical manner. This review paper focuses on providing an overview of the role of AI in the education sector during the digital era.

Literature review:

Artificial Intelligence AI is changing and growing constantly. By analyzing student data, it provides personalized learning experiences and adapting teaching methods to meet individual needs. AI is the ability of a computer program to learn and think. It conjures the image of supercomputers. It can also automate administrative tasks, such as freeing up teachers' time to focus on teaching, grading and scheduling. Even it can help us to know students experience by providing real-time feedback and by detecting areas where students need additional support. AI is something which is present almost in every aspect of our daily life. It allows people to work smarter and efficiently which leads to better consequences. AI has brought lots of scopes and opportunities with challenges. The pandemic has increased the usage of technology in education, including the use of AI. However, the rapid increment in the use of AI has also raised ethical concerns, such as data privacy and bias.

Artificial Intelligence in Education

There has been significant progress in ai in education sector in past few years. The adoption of AI in education has opened the door to new opportunities for development of better technology and learning environments, potentials and challenges. Since AI is a new concept, so new instructors struggle to engage with AI based applications, resulting in reluctance and low acceptance of AI. Therefore, improving instructors' acceptance of AI systems appears difficult. Academic educators, policy makers and professionals must work together to explore the new opportunities and resolve difficulties of the big data explosion and AI revolution. Teacher feedback is the student evaluation of the teacher. It is a feedback method that is long been used in education sector which helps teacher to get valuable feedback from student in order to overcome the difficulties. It also helps them to grade students during test and analyse their knowledge by using many AIS based apps. It helps both students and teachers to analyse and know the progress of student. AI acts as a bridge to overcome the gap between the teacher and student by exploring the use of computers.

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Benefits and Challenges of AI in Education:

AI has got a handful of benefits in education. It has got the capability to assist students & teachers in various ways, like delivering lectures in a mixed-ability classroom, giving students detailed updates on their writing. Social networking sites connect students & teachers through social media outlets, such as Facebook. Chatbots can also be found on social media platforms through various AI systems. These applications give students access to various learning materials based on their particular learning needs and subjects. Adaptive learning has proven to be one of the most promising leads of AI in education. While the traditional classroom education model continues to be one-size-fits-all, AI-powered adaptive learning systems are designed to enhance learning efficiency gradually. Despite many advantages, there still exist some worries. On the drawback of technical implementation, there are significant concerns about privacy annexing and the unpredictability offered by AI. The system of data collection, consumption, storage, control and organization is the main focus of data governance. An advanced program in this field, defined processes and policies, communication from corporate leadership and management, working together to establish data governance. Generally, the regulations must provide all the standard needs for upholding general standards, including accessibility, availability, accuracy, completeness, integrity, and security. The characteristics associated with each technology of the application are crucial for the effectual use of AI and big data analytics are used. While using broad data analysis and decision making, the requirements must match one's abilities and knowledge.

Methodology used:

This review paper used a narrative synthesis and a systematic literature review to examine the existing literature on the role of AI in education during the digital era. This has been evaluated by five independent reviewers who searched results, extracted data, and set the studies quality to sum up and describe the findings.

Results:

The usage of AI indicates a critical and strategic factor in educational development. It has changed education sector drastically. The technologies advanced by AI is increasingly being used as digital assistants by professors and students in various ways according to their demands. However, there are few problems with this advancement, like safety, privacy and security. Thereby, we can conclude that AI has both negative and positive aspects.

Conclusion:

This review paper provides an abstract of the role of AI in the education sector. It showcases the wellbeing of AI in learning, teaching, ethical concerns and adoption of AI in education during COVID-19. Further researchers should put their efforts into ethical problems associated with AI. Altogether, AI has the capability to transform all the lives in the human sector.

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