



ARTIFICIAL INTELLIGENCE IN EDUCATION

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ABSTRACT:

Education is the process of imparting knowledge to the learners. With the changing times, the method of education has also changed. In the digital world, AI can make education more cost effective by contributing to automating the administrative tasks and providing scalable learning methods and solutions. The use of Artificial intelligence has become common in every field. The benefits of artificial intelligence are more attractive as it can handle routine tasks such as grading assignments, scheduling and managing student records, freeing up time for educators to focus on teaching. The adaptive learning platforms have helped the teachers as well as the students to be more learning oriented with the help of internet connectivity. On the other hand, One of the most noteworthy advantages of artificial intelligence in education is the ability to provide personalized learning experiences through data-driven insights. The AI algorithms can scrutinize individual student data, including learning pace, strengths, and weaknesses, to tailor educational content and activities. This paper tries to put focus on the role of Artificial Intelligence in education.

INTRODUCTION:

The role of Artificial Intelligence (AI) in education cannot be ignored as it has the potential to resolve a lot of challenges in the field of education. In other sense, it has the ability to create innovation in teaching and learning practices. In the recent past, a lot of technological developments have had posed multiple risks and challenges while using the technology in education. Now a days, the educational institutions are embracing technology to give good education to the students. The adaptive learning platforms are helping the teachers as well as the students to take the benefit of AI and take up more learning and in turn gain good knowledge. The AI algorithms can help us to scrutinize individual student data, including learning pace, strengths, and weaknesses, to tailor educational content and activities. The role of artificial intelligence is increasing day by day and its significance in rapidly enhancing in extending improved learning in the field of education.

REVIEW OF LITERATURE:

Bidisha Borchetia and Mridula Hazarika¹ in their research on artificial intelligence found that the educational system is being revolutionized worldwide by the way of artificial intelligence (AI). The way AI is transforming the students to learn and teachers as they are teaching is having an immense effect on higher education in India. The AI and other cutting-edge technology have become more crucial and it has led to a high-quality education. As UNESCO is committed to help Member States in implementing the AI technologies in educational contexts and in turn supporting the essential values of inclusion and equity.

Surbhi Aggarwal et al² in their research on artificial intelligence concluded that the main purpose of AI in schooling is the automation of academics and administrative obligation and customized studying-smart content material, and usually accessibility. In addition to this, AI has solved the accessibility issues in several areas like health, surroundings, and so on. India's capacity for AI growth have made it dynamic and has integrated the era into the way schooling to attach it and teach the young population as people their destiny. The usage of AI has enabled to progress the effectiveness and in turn enhanced the performance of teachers, resulting in superior progressed coaching. similarly, AI has helped the students to have advanced studies as AI has helped for customization and personalization of gaining knowledge.

K. Ravishankar and K. Logasakthi³ in a research article on role of artificial intelligence noted that looking at the everchanging trends in the technological fields it is clear that artificial intelligence plays a vigorous role in all the latest technology fields. A lot of people are aware that AI creates more awareness among people about how to utilise the technology that we have created for our own use. This study helped in understanding the awareness as well as impact of AI on students. It focussed mainly on understanding various aspects through which AI is persuading our life and trying to finding out ways to overcome it through appropriate application of systems.

Ahmet Gocen and Fatih Aydemir⁴ in research on artificial intelligence in imparting education in schools commented that adaptive education, personalization and learning styles are the central key nodes. In other words, the adopting of a one-size-fits-all approach can be effectively replaced by the use of AI in the field of education with personalized learning for each student. So, we can conclude that progress in education can fulfil the necessities of optimal learning with AI and its supporting tools which in turn extends huge help in supporting teachers and students

OBJECTIVES:

The following are the objectives of the paper:

1. To study the emergence of artificial intelligence in education
2. To know the benefits of artificial intelligence in education

METHODOLOGY:

This paper is prepared on the basis of secondary data and is descriptive in nature. The secondary data related to emergence of artificial intelligence in education sector also its benefits have been drawn from various published sources. The paper aims at pointing the benefits of artificial intelligence in the filed of education.

EMERGENCE OF ARTIFICIAL INTELLIGENCE IN EDUCATION:

The emergence of artificial intelligence in education field can be traced back to 1960s. since then, the educators have started teaching with the help of advanced computer-based tools such as PLATO, developed by the University of Illinois in education sector. Later on, after during 1970s few more advanced tools like intelligent tutoring systems (ITS) were being adapted for classroom instruction. During the initial days of 2020, higher-education institutions have started to initiate the framing of guidelines and policy document to regulate the artificial intelligence tools. During the recent past, the AI content detectors have come in place and are being employed to curb the irregularities.

Artificial Intelligence has begun to change the learning environment of how teachers and students interact with each other by providing customized learning thereby providing curriculum optimization. It in inferred that implementing AI technology will enable colleges and schools to save time and financial resources. Therefore, the use of artificial intelligence should be eagerly incorporated in teaching so that educational institutions may harness the benefits which in turn helps in moulding the next generation into well-learned individuals.

The role of AI can bring a lot of benefits to the stakeholders and hence we can infer that that development of AI in education sector can accomplish the goals of optimal learning with the help of its supporting tools thereby extending a huge help in supporting teachers and students for improved learning and knowledge enhancement.

BENEFITS OF ARTIFICIAL INTELLIGENCE IN EDUCATION:

Artificial intelligence is rapidly becoming a powerful tool in the education sector. The AI has the potential to revolutionize the way for learning, teaching and assessing, which has already begun. As it is implied that any machine disposed job extends a lot of benefits and the same is applicable in education sector also. Artificial Intelligence in education sector is going to help in many areas in education and is expected to bring positive results. In addition to this, the use of generative Artificial Intelligence chatbots in education sector have been extended till the activities like assessment and feedback, taking up machine translations, proof-reading of various files and editing, etc.,

The following are some important benefits of artificial intelligence in education sector:

1. Personalized learning
2. Multiple learning platforms
3. Adaptive learning
4. Research oriented learning

5. Improved learning
6. Continuous assessment
7. Feedback analysis

CONCLUSION:

Artificial Intelligence in education sector is going to help in many areas in education and is expected to bring positive results. Finally, it can be concluded that artificial intelligence in education helps in many ways. It is prominent that any change in a particular area will bring certain advantages and may pose few limitations or challenges and the same is possible with the adoption of artificial intelligence in financial services area. The automation advantages of artificial intelligence is likely to boost the efficiency of the business which in turn brings more and more business opportunities. At the same time artificial intelligence in education is very good services to the learners as well as the teachers. A lot of manual processes which are constant and monotonous in nature can be fetched under artificial intelligence system. As the work is machine dependent it is expected to bring cost reduction advantage also. On the other hand, the probable challenges from artificial intelligence do exist and have to be addressed properly and the benefits arising thereon shall be tapped in a judicious manner to bring good results in education. To sum up, it is worth mentioning that artificial intelligence in education would bring a lot of benefits to the stakeholders.

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