

## Artificial Intelligence (AI) In Education And Learning

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### Abstract :

John Mecarthy is considered as the father Artificial Intelligence. He was an American Computer Scientist. The term Artificial Intelligence was given by him.

The branch of computer science is concerned with making computer behave like humans. The greatest advances have occurred in the field of game playing, Artificial Intelligence includes game playing, natural language, robotics etc. We can see that best computer programmes of various play like chess can beat humans. There are several programming languages known as AI languages. Artificial Intelligence is working a lot in decreasing human effect. In artificial intelligence, abstraction is commonly used to account for the use of various levels of details in a given language or the ability to change from one level to another while preserving useful properties.

### Key Words :-

Computer Science, Artificial Intelligence, computer programming artificial languages.

### Scope of AI in Education :-

AI can make education more personalized and efficient with Artificial Intelligence educators can offer personalized pathways and provide students feedback based academic performance. AI can accommodate certain disabilities, learning speed and educational background.

With AI for schools, education and virtual classrooms, the technology takes up value - added tasks. AI for education can check home-work, grade tests, organize research papers, make presentation and notes, maintain reports and other many managerial tasks. AI offer personalised learning opportunities, creating interactive content and providing real-time assistance.

### 2 Applications of AI in Education :-

Artificial Intelligence has many applications in education including :-

- a) **Chatbots :-** It can teach students through a series of messages, similar to a lecture. Student can ask questions.
- b) **Amazon Alexa :-** Students and parents can we voice interact for getting information and can save time.
- c) **ELSA speak :-** With the help of this AI app students can learn English easily.
- d) **Kidaptive :-** This AI app collect data and increase learners engagement.
- e) **Knewton :-** This platform uses AI to analyze student data and create personalised lesson plans. There are various applications of AI in education. We come to know that the impact of AI in education is massive. AI tools can automate admin tasks, reduce overheads and lower education costs. AI educational tools and technology encompasses tools for teachers, students.

### Importance of AI in education :-

Artificial Intelligence (AI) offers a cost-effective and scalable method of ensuring the integrity of system evaluations. AI can minimise the need of physical inspection or supervision.

AI in education provide every student to find the best ways to learn and study their curriculum with the help of softwares.

AI system can provide personalized help with homework, explain difficult concepts and answer questions, whenever students need it.

### **3 Benefits of Artificial Intelligence (AI) in education :-**

We come to know the importance of AI for students and teachers. Nowadays, AI is becoming a popular tool in education. It promises the new era of efficiency, creativity and support in teaching.

#### **Following are benefits of AI in education :-**

- a) **Efficiency in content creation :-** AI can update educational content quickly. It saved time.
- b) **Task Automation :-** AI avoids repetitive task in administration. It enables educators to focus on their learners.
- c) **Enhanced student Engagement :-** AI is a powerful tools which engages learners and motives. AI provides unique learning styles. AI tools can be trained to incorporate learning design best practices into course activities.
- d) **Visual learning aids :-** Complex information can be visualized quickly by using images.
- e) **Support for special needs :-** AI provides text-to-speech, visual recognition, speech recognition and can give support to learners.
- f) **21<sup>st</sup> Century Skills :-** AI gives technical skills as well as nurture critical thinking and ethical considerations, which are necessary in 21st century of technology.
- g) **Virtual tutors :-** AI can provide immediate feedback and support to students, helping them to overcome learning challenges and achieve mastery.

4 There are more other benefit of Artificial Intelligence in education such as personalised learning, improved assessment. Career guidance, professional development, classroom management, Digital Literacy etc.

#### **Disadvances of Artificial Intelligence in education :-**

While Artificial Intelligence can be a powerful tool in education it can also have some disadvantages, including :-

- a) **Over Reliance on Technology :-** AI can lead student to make, dependent on technology. It can lower the capacity of students about thinking on difficulties or in solving problems.
- b) **Reduced Human Interaction :-** AI can reduce the human interaction which is necessary and important for social and emotional development.
- c) **Job displacement :-** AI can replace teaching assistance and teachers which create unemployment.
- d) **Misinformation :-** AI can generate misinformation because the data may be outdated, have errors or spread misinformation.
- e) **Cheating :-** Students can use AI to cheat on assignments, such as writing essays, answering quiz questions or doing homework.
- f) **Isolation :-** Students who interact more with software progress feels isolated and disconnected which decreases his motivation.

### **5 AI adoption in education in India :-**

India is making progress in using AI in its education system through new policy like NEP 2020, funding allocations, giving training to teachers, public and private partnership etc. But while comparing to other countries like United States, China, UK etc., India is lagging in teachers training programmes, availability of funding and the main root thing is lack of internet facility in remote places schools.

India needs to enhance its policies, increase funding, improve teacher training and make availability of internet and also prepare students for AI-driven future.

**Conclusion :-**

Finally, we can say that Artificial Intelligence in education is overcoming enormous challenges by facing completely new era of customized learning, advanced support systems, and easily accessible resources. AI is making revolutions by providing various innovative systems.

The main aim of Artificial Intelligence in education is not to replace teachers, but to provide helping hand and various aids to teachers as well as students.

In future Artificial Intelligence can make promise of more adoptive, inclusive and efficient learning environment. AI technology was designed with equity, access and privacy. Chat GPT and other applications will radically change the education system.

We must make sure that the upcoming generations learn relevant skills that will set them and our planet up for succeed.

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