



## Role of Artificial Intelligence in Education –A Perspective

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### ABSTRACT

*The extensive use of technology in education is altering our ability to learn and teach. Artificial intelligence is one creative way for personalising the experiences of various learning groups, teachers, and tutors. Most AI technologies follow three basic principles: The process of obtaining, analysing, and modelling new experiences and behaviours is known as learning. Self-correction is the process of improving algorithms to obtain the most precise results. Using reasoning, select specific algorithms to perform a specific task. The application of AI techniques has enormous implications for all industries, including education. The embracing of technology looks to be one of the most appealing techniques to reforming businesses. This paper investigates the role of artificial intelligence in education fields.*

### KEY WORDS

**Education, AI technologies , Modelling.**

### INTRODUCTION

Artificial intelligence (AI) has the potential to address some of the major challenges facing education today, revolutionise methods of teaching and learning, and hasten the achievement of SDG4. Though many risks and issues are unavoidably brought on by quick technological advancements, they have so far surpassed regulatory structures and policy discussions.

The Schooling 2030 Plan can be accomplished with the assistance of man-made intelligence advancements, and UNESCO is focused on helping

Part States in doing as such while guaranteeing that its utilization in instructive contexts is administered by the major upsides of value and consideration.

A human-centered approach to AI is naturally required by the UNESCO mandate.

It attempts to change the subject to include AI's function in solving current disparities in access to information, research, and the variety of cultural expression, and to make sure AI does.

Besides, as a component of the Beijing Agreement, UNESCO has made a distribution focused on increasing the status of training policymakers in man-made reasoning. Man-made consciousness and Training: Policymakers' Aide will bear some significance with experts and experts in the strategy making and schooling regions. It tries to cultivate a typical comprehension of the potential and hardships that computer based intelligence presents for schooling, as well as the ramifications for the fundamental competences expected in the simulated intelligence time.

## Objectives of the Study

The study has been contribute the following broad objectives:

- To study the various perspectives of Artificial Intelligence in teaching and learning.
- To analyse the roles of Artificial Intelligence in education field.
- To identify the bright side and dark side of Artificial Intelligence.

## Need of the Study

The need of the study is to examine the roles of Artificial Intelligence in Academics area and also investigates the consequences for the fundamental requirement in the era of Artificial Intelligence (AI).

## Artificial Intelligence Market in India

Analytics India Magazine (Aim) performed a study with TAPMI and based on their findings, the following results and significant highlights were revealed:

- The Artificial Intelligence market in India is worth a whopping \$7.8 billion.
- The market size is expected to expand by 22% by 2020.
- The IT sector accounts for 35% of the AI market in India, followed by the technology sector (which comprises the software and hardware sectors) at 23.3%.
- The Banking, Finance, Infrastructure, and Services (BFSI) sector accounts for 9.6% of the market.
- Currently, around 109000 individuals work in AI firms. There is a 20% increase over the previous year.

## The Bright Side of the AI Future

### Precision Medicine

- AI is now being used to comprehend how a person's environment, lifestyle, and genetics can influence the most effective way to prevent or treat a particular disease.
- Treatments are already becoming more accessible, accurate, and economical because to digital therapies, custom-designed medications, and enhanced diagnostics, which also helps people live longer and healthier lives.

### Driverless Cars

- Modern cars will be superior to humans in terms of perception, prediction, and spontaneous planning since deep learning is particularly good at tasks involving pattern recognition.
- According to an estimate, driverless vehicles will account for 70% of all miles travelled by 2035, according to IEEE Spectrum.

- Fatal driving accidents are projected to drop dramatically as autonomous vehicles become mainstream and make deaths from driver error a thing of the past.

### Virtual Assistants

- Speech technology now makes life simpler and is widely used, but when virtual assistants are linked to robots and are a part of the singularity, it will play a considerably more important role in our lives..

### Implantables

- The widespread use of brain-machine interfaces will result in a tremendous increase in human intelligence and may enable us to treat numerous diseases, such as paralysis, blindness, anxiety, and addiction.
- In a few years, we may be able to modify and improve ourselves by using implantables to reprogramme the human genome.

## The Negative Aspect of AI Future

### Widespread Monitoring

Digital privacy has been destroyed as a result of the extensive use of AI by large technological businesses. With draconian control over their population, China's social credit system extends that surveillance to all facts of life, not just the digital one. It does this by assessing the behaviour and dependability of their citizenry. Many people are concerned that the introduction of Covid-19 passports marks the beginning of the spread of this kind of control throughout the Western world.

### Contemporary Warfare

AI may be the deciding factor in the outcome of the next major battle. The use of unmanned underwater vehicles, constellations of intelligent robotic equipment, drones, robots, and precision- guided missiles will determine who will dominate modern warfare.

### Unsure of the Future Applications of Artificial Intelligence

We are yet unsure of the future applications of artificial intelligence and how it will be used. An illustration from this vast area of knowledge is that, from a functional standpoint, if artificial intelligence is used in an applied or industrial environment, the emphasis right now is on how this can be used to address a preset problem. When artificial intelligence needs to be able to develop over time and consider contextual aspects outside of the established challenge, really complicated situations will arise.

Humans consider situational and contextual elements when we communicate with one another. The intention is for the machine to follow suit. If not, we'll realise that we're not dealing with some one else.

## AI's Roles in the Education Sector

Artificial intelligence (AI) has been used to automate processes in many different industries, and it also has applications in education.

Professors and instructors sometimes have to deal with a variety of administrative and organisational tasks when it comes to controlling the learning environment.

### AI Applications

Thanks to AI, people may gain from educational software that is adapted to their requirements.

- One of the most crucial applications of technology is in education, where AI is being used to make learning more enjoyable, efficient, and available to students.
- Students from all around the world, including those who are deaf, have vision or hearing difficulties.
- The wealth of knowledge produced by AI isn't just helpful for educators.
- Also students AI bots will thus be able to help any subject at any time.
- Students can utilise online AI helpers at any time of the day, provided they have an internet

connection. They are unrestricted in their ability to plan their day since they are not bound to a specific spot.

- By monitoring a student's progress in a course, the use of AI in education can be revived.

## AI tools are being Applied in Education

- The learner-centered education revolution, which is expanding quickly, is driven by the professional learning and software platform Altitude Learning (previously AI School).
- This one-of-a-kind platform enables student-driven learning.

It enables teachers to focus on the needs of each learner throughout the learning cycle, from planning to engaging, evaluating, and comprehending a student's development.

Artificial intelligence (AI) is the theory and development of computer systems capable of doing activities that need human intelligence; in other words, taking components of what we now believe to be exclusively human attributes and successfully transferring them to a machine.

Visual perception, speech recognition, decision making, and translation are examples of human qualities. Furthermore, communication, the ability to learn new things, the ability to abstract or correlate new knowledge with previously existing knowledge, and a variety of other difficulties are critical to the advancement of artificial intelligence. The machines should also be able to distinguish between what is right and incorrect, as we do in school.

## AI's Place in Management of Academics

- The academic management staff (teachers, faculty, and teaching staff) is the one group of people who stands to gain the most from the use of AI technology.
- The AI is the ideal instrument for educators to greatly ease their labour because of its capacity to automatically grade papers, analyse assignments, give homework, and do many other things.

The capabilities of AI don't stop there, either!

By seamlessly integrating with LMS, it improves personalised and individualised learning by allowing users to exchange study materials, browse lesson content, produce and watch instructional films, presentations, illustrations, photos, audio lessons, etc.

Additionally, it enables students to take tests and exams online using computers, cellphones, tablets, and other electronic devices.

Artificial intelligence (AI) enables machines to mimic human behaviour and learn from their mistakes as well as adapt to new inputs. Using these hints, AI can be used in the learning process.

## CONCLUSION

Contrary to what many people think, using AI in education isn't necessarily a negative idea. Like any other component, AI has advantages and disadvantages that come with a price. If we are focusing more on the disadvantages than the advantages, it becomes challenging to advance and evolve.

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