

## **Pros and Cons of Artificial Intelligence in teaching learning process**

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### **Abstract: -**

From ancient times in the teaching learning process only chalk and talk methods were used. So, after the invention of technology the use of technology has become helpful for teaching learning Process. Use of Artificial intelligence in the field of education is increasing day by day. Artificial intelligence helps for the development of teachers and students to enhance the teaching learning process. In this research paper researcher firstly clears the concept of artificial intelligence. But, every coin has two sides. Through the use of Artificial intelligence teaching and the learning process becomes very easier and techno savvy also. But, excess use of technology causes disturbance to the intellectual capacity of men. So, researchers in this research paper focus on the pros and cons of Artificial intelligence in the teaching and learning process.

### **Keywords: -**

Artificial Intelligence, Teaching, Learning, Teacher, Student.

### **A) Introduction of the study: -**

“Teaching more than imparting knowledge; it is an inspiring change. Learning is more than absorbing facts; it is acquiring understanding.” The teaching and learning process is essential as it enables students to acquire the knowledge, skills, and attitudes necessary for their future. Additionally, it fosters the development of critical thinking and problem-solving abilities in students. Conventional teaching approaches possess a long-standing history and have demonstrated their effectiveness throughout time. They facilitate vital human connections between educators and learners, nurturing a sense of belonging and encouraging active participation. Integrating technology into education enhances the learning experience, boosts student engagement, and equips learners for a technology-oriented future.

Artificial intelligence (AI) is technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision making, creativity and autonomy. Artificial intelligence (AI) has become a potent technology with great potential for changing how we teach and learn. Technology has become a necessary component of our life in the modern day. From smartphones to computers, washing machines, and smart TVs, we are used to all kinds of technologically driven devices.

On a daily basis, new technologies enter the market and improve our quality of life. Every industry may benefit from technology, but the education sector is one where it is particularly useful. It is being used in classrooms to make learning enjoyable by incorporating interactive elements. Education is made simpler, more enjoyable, and more accessible by advanced technologies. But this artificial based education and learning having certain kinds of drawbacks also. So, in this research paper researcher focuses on positive and negative points of use of artificial intelligence in the teaching and learning process.

### **B) Objectives of the study: -**

- To study the concept of Artificial Intelligence.
- To focus on the use of Artificial Intelligence in Teaching Learning Process.
- To study the positive points of use of Artificial Intelligence in Teaching Learning Process.
- To study the disadvantages of use of Artificial Intelligence in Teaching Learning Process.

- To focus on balancing, proper and limited use of technology in teaching learning process.

**C) Research Methodology: -**

Secondary sources related to doctrinal research have been consulted for this study. Publications from journals, books, and articles are examples of secondary sources. For the study, a number of additional websites, blogs and web-derived materials have also been used.

**D) Concept of Artificial Intelligence: -**

Artificial intelligence (AI) is a branch of computer science that aims to build machines capable of performing tasks that typically require human intelligence. Machines can now mimic human skills including learning, comprehension, problem-solving, and decision-making thanks to artificial intelligence. AI is frequently used in speech recognition, image recognition, content creation, recommendation engines, and self-driving automobiles. Several of the artificial intelligence we use today, such as smart devices and voice assistants like Siri on Apple devices, are powered by artificial intelligence. To automate activities, speed up decision-making, and facilitate consumer engagements with chatbots, businesses are implementing strategies like natural language processing and computer vision, which allow computers to understand images and use human language.

**E) Use of Artificial Intelligence in Teaching Learning Process: -**

“I strongly believe in the need for stakeholders to understand the cyclical effects of AI and education. By understanding how different activities accrue, we have the ability to support virtuous cycles. Otherwise, we will likely allow vicious cycles to perpetuate.” AI in education can only grow at the speed of trust.”



This diagram shows that artificial intelligence now a days become really integral part of a teaching and learning process. Through machine we also now done such kind of teaching learning work with the help of artificial intelligence. Technology offers immediate access to information, which is why its integration in the classroom is crucial. Smartphones, computers, and tablets have become a commonplace part of daily life for both students and teachers. It makes sense to explore the use of technological tools in the classroom to foster meaningful learning experiences for students of all ages. Incorporating various forms of technology in the classroom, including virtual learning environments, results in learners who are actively engaged with educational goals. The use of technology also facilitates differentiated instruction, allowing educators to address the unique needs of students as individual learners within a wider classroom setting. So, the use of technology is really increasing day by day in teaching learning process. Technology is utilized in education with the various ways such as.

- Digital textbooks: Educational institutions are transitioning from traditional textbooks to digital versions that can be accessed via tablets.
- Gamification: Students acquire knowledge through games and interactive learning resources.
- Virtual reality: Learners can engage with computer-generated environments.
- Blended learning: Pupils are able to learn through a mix of online and face-to-face instruction.
- Multimedia presentations: Educators can employ multimedia tools to enhance the engagement of lessons.
- Learning management systems: Students can collaborate on assignments and exchange ideas.
- Video conferencing: Learners can connect with one another and participate in discussions.

**F) Pros of use of Artificial Intelligence in teaching learning process: -**

- Teachers who've tried AI have found that it can help make their jobs easier, from coming up with **lesson plans to generating student project ideas to creating quizzes**. With assistance from artificial intelligence, teachers can gain more time to spend with their students.
- AI makes it possible **to modify study materials to fit each student's level**. This implies that every person can learn at their own speed, improving in areas where they demonstrate higher ability and reinforcing their areas of weakness.
- Technology **helps teacher and students for engaging, entertaining ways to learn** in today's technologically advanced, fast-paced environment.
- AI can **monitor performance on particular tasks**, attendance in class, and assignment submission to assist spot learning gaps or highlight concerning behaviour. A teacher can create timely, effective interventions far more easily as a result.
- With the use of audiovisual resources, students can easily grasp theoretical ideas and comprehend their practical applications. In addition, new technology has facilitated **the learning process for students with disabilities**. Despite their condition, they are able to learn through the use of computers, visual aids, and other technology. There are many strong and efficient learning resources available for students with disabilities.
- Distance is no longer an obstacle. Modern technology has made it possible for students from around **the globe to gather on a single platform** and exchange information and experiences.
- **Teachers can recover valuable time by utilizing technology** in the classroom. All it takes is a few clicks to take attendance, save documents and lesson plans in Google Drive, and report on the results. By using technology, teachers can devote more of their time to what really matters in teaching.

So, Technology can benefit education in many ways. From helping students learn in new and exciting ways, developing communication and teamworking skills or improving accessibility, teachers can use technology to adapt learning to each student's needs.

**G) Cons of use of Artificial Intelligence in teaching learning process; -**

Every coin has two sides. Artificial Intelligence become various helpful in teaching learning process. But there are certain drawbacks disadvantages also of the use of artificial intelligence in teaching learning process. Such as: -

- **Over-reliance on technology can hinder critical thinking**, and a lack of human interaction can affect the development of social skills. AI systems can offer instant solutions, which may deter students from using the critical thinking, problem-solving, and analysis processes that are essential for critical learning.

- **Artificial Intelligence causes to various disturbance to the health** also. Various eye, brain problem to people due to excess use of technology in the education.
- The **emotional support, empathy, and individualized instruction** that human teachers offer, all of which are critical for student engagement and social development which **cannot be replicated by Artificial Intelligence** tutors.
- Another area of **AI that worries academics is privacy**. Because AI frequently entails gathering and analysing vast volumes of data, there is a chance that the incorrect individuals or groups will gain access to this data. Even image manipulation and the creation of phony profiles are feasible with generative AI.
- Many teachers are losing their employment as more and more work are automated. Therefore, **the issue of unemployment is a result of excessive technology use**.
- **Identity is a big part of understanding respect within the classroom** and acknowledgement of these identities is something AI technologies can't always do, and if they can, it's mostly an afterthought
- **Students may not feel as engaged or motivated to study** when there is no personal touch or connection made. This may detract from the quality of the learning process.

**H) Conclusion: -**

**The inclusion of contemporary artificial intelligence technology in the curriculum is essential, but it's also critical to acknowledge their limitations**, as their outputs lack compassion and feeling. Furthermore, privacy and accuracy-related ethical concerns must be addressed. In real-world applications, experts have noted that AI may rely on out-of-date data if it is not properly trained. However, when properly implemented by a skilled tech provider, AI may be used to promote science and knowledge, safeguard intellectual property rights, and be transparent. **So, legal, good, fair, moral and limited not excessive use of Artificial Intelligence technology is really helpful for the progress, development of quality teaching learning process.**

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