

Artificial Intelligence (AI) in Education: A Double-edged Sword**Mr. Pramod Chudaman Chaudhari**Assistant Professor, Department of English, Kisan Arts, Commerce and Science College,
Parola**Article Received:** 07/03/2025**Article Accepted:** 09/04/2025**Published Online:** 10/04/2025**DOI:**10.47311/IJOES.2025.7.04.292**Abstract:**

Artificial intelligence (AI) has brought drastic changes in the evolution of multiple sectors. Nowadays in every sector people are using AI to complete their work easily and faster. Education sector is also one of them. The people closely connected to the education sector are also using AI for adaptive learning, teaching pedagogy, research, and reducing administrative burden etc. it (AI) is rapidly transforming education and offering innovative tools in the field of education. It is reshaping traditional teaching methods. Some people argue that it can replace teachers and reduce jobs related to teaching fields. Can AI really replace teachers? How can it be beneficial in teaching pedagogy? What challenges can be raised due to this AI innovation in the teaching or education sector? This paper will discuss the above-mentioned question to understand the advantages and disadvantages of Artificial Intelligence (AI).

Keywords: Artificial Intelligence, education, teaching pedagogy, adaptive learning etc.**Introduction:**

Since many decades AI i.e. Artificial Intelligence is a debating issue. And nowadays it takes a giant shape in the world. Everywhere people are talking about the pros and cons of AI. The idea of Artificial Intelligence first originated in a 'Dartmouth Conference' where a few researchers came together for a '*Dartmouth Summer Research Project on Artificial Intelligence*' in 1956 at Dartmouth College. They discussed the idea of simulation of human intelligence through a machine and performing several tasks like reasoning, learning and problem solving. In that conference they had discussed the main objectives such as machine learning, automated reasoning, natural language processing, robotics, cognitive computing etc. and it was all based-on algorithms. Nowadays AI flourished in all sectors rapidly and brought drastic transformation. Education sector is not an exception for this. It brings lots of opportunities and challenges in education also. People are using ChatGPT, Meta AI, Scholar GPT, Consensus etc. for their teaching, research and administrative work. It impacts lots of positive and negative changes in the sector.

Advantages of AI in Students and Teachers Role:

In education along with teaching, a teacher needs to perform several tasks such as

making PPT, reports of performed activities, evaluation, administrative works etc. sometimes this kind of work is very time killing. And because of this a teacher is unable to concentrate on his teaching. Before the origin of computers, it was very difficult to maintain educational and administrative records properly but computers helped to do such work very speedily. And made it easy to maintain the same. And now we have an AI system which tremendously helps to improve such work easily and quickly. Because when we use a computer system, it requires human intelligence to perform a task and AI technology works on its own. It has Machine Learning and Natural Language Processing through which it can develop personalised learning by adapting or understanding the content and providing content as per the needs of the user. It will help to reduce time for a teacher on repetitive administrative tasks regarding maintaining the student performance record and report writing. AI can also improve teaching pedagogy in the role of teacher. After the innovation of computers, in the teaching sector people have started to make PowerPoint Presentations to improve and deliver effective teaching. But to develop PPTs it takes much time. And therefore, many teachers avoid delivering a lecture along with PPTs. But now due to the help of AI technology it has become easy to create PPT presentations. Along with time saving, it will help to deliver impressive lectures on topics.

AI will bring enormous changes in teachers and student life both. Whenever people were unknown about any information they used to say 'if you don't know then *google* it'. But after the ChatGPT or Meta AI or DeepSeek now people prefer to search on these AI tools rather than *google*. In teachers as well as students' life references or knowledge resources are very important. Before AI people were using *google* which provides multiple links of websites. Teachers and students were selecting the needy one as per their need to read and do their academic work. But it was again time consuming to select the appropriate website and find the needy material. Because while researching on google the user had to open a few websites one by one, go through them and find the appropriate one. Sometimes the users were not satisfied with the provided data. Or sometimes the users were not getting the materials in a lucid and simple language so that he or she can understand easily. And he or she had to go with the long-written data and unable to find out the needful content. Sometimes he or she was not satisfied from some websites. But AI has resolved all these problems. Some of the people had to search the knowledge resource center wherein they could get related reading materials to improve their teaching and knowledge. Now the user has to give proper command to AI and immediately it will provide the needful information in a very lucid language. But there is caution that the user has to verify whether the provided information is correct or not. There are such AI-driven tools on some websites which provide texts along with its analysis, contextual materials and themes etc. added to enhancing knowledge, it encourages different perspectives, many insights, and various diverse approaches to the content.

AI has also made literature from different eras and cultures easily accessible through digital libraries. Teachers and students, both can explore classic and contemporary works without physical limitations. For example, an AI-curated digital library such as 'Project

Gutenberg' is providing full text of many literary works freely. Any scholar can visit the website and find the needful content on its sites. Not only the text but if anybody wants to have specific chapters, themes, or particular characters instantly for doing research and reading more efficiently. All the sources can be easily available due to AI fast and easily. Not even that AI is helpful for the restoration of old Manuscript. Many rare and ancient texts are difficult to read due to faded ink or damaged pages. AI-driven restoration projects, like those used by google books, can reconstruct missing parts of historical manuscripts. This allows literature students to study early works that were once inaccessible.

Sometimes students have difficulty to summarise or analyse particular literary text or to locate the theme or historical background AI offers to help students a richer understanding of texts. For example, suppose an Indian student is reading a mediaeval text as 'The Canterbury Tales'. It is very difficult for an Indian student to understand the contemporary references related to classical Christianity. To find the appropriate information or historical references a student can use AI supported apps or websites to generate historical backgrounds on medieval England, providing students with clearer understanding of the societal norms reflected in Chaucer's works or particularly about 'The Canterbury Tales'. Students have got suitable information with AI-based tools about such texts without surfing several websites or textbooks.

There is one more benefit of AI-driven tools i.e. Translating Literary Works. Suppose a student from India is interested in reading French literature. But due to language barrier, he or she is unable to read the same. And now due to the evolution of AI there are various AI-based tools such as 'DeepL' or 'Google Translate' which translate the work in any language which the user wants. Means a Marathi reader can translate a French story and he can enjoy and understand the story also.

In addition to above mentioned advantages there are some other benefits such as a user can have a comparative information of two texts. AI can provide user cross-cultural studies and more interactive information about the provided texts. Together with this there are some AI-driven audiobooks that are also available now onwards. It is very beneficial for visually impaired students. They can listen to William Shakespeare's plays rather than reading them. This inclusion allows more students to engage with literature.

AI-based tools are also helpful in research and citations. When a researcher selects a particular text to analyse, he or she needs to go through the proper reading material such as texts and research papers. Before AI it was very time consuming and difficult to reach at the sources. But now due to AI-driven databases such as 'Google Scholar AI', 'Semantic Scholar', it has become very easy to find the relevant academic research papers and also to generate accurate MLA citations automatically.

To conclude, it can be said that AI has made literary resources more accessible, enabling students and teachers to engage with literature in ways that were previously difficult

or impossible. From digital libraries and AI-Powered literary analyses to multilingual translators and accessibility tools, AI enriches literature education by providing deeper insights, broader perspectives, and more efficient research capabilities. However, teachers must guide students in using AI responsibly, ensuring that technology enhances rather than replaces critical engagements with texts.

Disadvantages of AI in Students' and Teachers' Role:

As we know that any technology has its advantages as well as it has disadvantages too. AI does not have an exception. Few years ago, a news article had published that the students of Oxford University were making spelling mistakes. It was very debatable on those days how the students of Oxford University could make such silly spelling mistakes. The reason is that due to the overuse of laptops in our daily life students are making spelling mistakes in their written papers. In every laptop there is a function of auto spelling correction and so if a student made any mistake about spelling that laptop's auto correction function will correct the spelling automatically. And therefore, students could not focus on their spellings carefully. AI-driven tools also have such disadvantages. For example, over-reliance on AI, Loss of Creativity and emotion, plagiarism and academic integrity, reducing human interaction in education. As we discussed the disadvantages of the use of laptops, we also have such disadvantages of over use of AI. There is a Marathi proverb 'अति तेथे माती' means in English 'where there are excesses, there will eventually be failure. If you obsess too much, you will destroy whatever you already have'. One can say the same about the use of AI. Or if we depend on AI or over-relies on AI one can lose his or her critical thinking. One may not depend all the time on AI for textual critical analyses, summary writing, and thematic analyses of the texts rather than developing their own interpretative skills.

AI-driven can provide us the summary or thematic details but it cannot have human-like emotions and personal insights. For example, we have Dalit writing in literature which comes into existence because of human-like emotions and personal insights. But AI-driven tools do not have such features. It cannot bring the subjective interpretations that a human can bring in literature. Particularly being a student and teacher of literature, being an art form, requires human intuition, empathy, and cultural contexts these qualities cannot grasp fully by any Ai-driven tools.

In the classroom, to evaluate students, understanding teachers give some assignments and projects to their students. And on the basis of the same he guides them to improve their lacuna. But if a student is completing his project by copying the content from AI-tools then how can a teacher evaluate his pupils? Such AI generated essays or projects can lead to plagiarism and make it difficult for teachers to access a student's authentic understanding. Such unethical practice is dangerous in the sector of education. It will weaken a student's academic integrity. And as we discussed in the beginning about the access use of laptops, in the same way what students will do in their written exams? Same thing applies to research. The world is continuously developing because of innovative research ideas. If we lose the academic integrity in research then what would be the future of the world? Many researchers are taking help from AI for research. Sometimes researchers are fully dependent

on AI-based materials rather than on their own. Due to this, the growing generation may lose their critical ability and the academic world may lose academic honesty. Taking help is not wrong sometimes but complete dependence is dangerous.

And now the last point is ‘reducing human interaction in education’. Classroom teaching is not just passing information about the defined syllabus. It is about many things such as passing information, developing critical thinking, discipline, cultural development, academic environment, and so many other things. AI or any other technology cannot replace human involvement in education. And here AI-driven education may reduce direct student-teacher interactions. Along with the above-mentioned points, in particular it is very crucial for understanding literature through discussion and debate. It will weaken all the things which help to grow the future generation through the traditional methods. I would agree to develop and find some opportunities from AI. but complete over-reliance on AI is not acceptable. The role of classroom discussion, emotional engagement, and mentorship is very important.

To conclude, AI in literature education provides valuable tools that enhance personalized learning, efficiency, and resource accessibility. However, it also poses risks such as diminishing critical thinking, ethical concerns, and reducing the emotional and human aspects of literary interpretation. Teachers must balance AI integration with traditional literary teaching methods to ensure that students develop deep analytical, creative, and interpretative skills while leveraging technology responsibly.

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