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Original Article

Impact of Artificial Intelligence on Higher Education

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Abstract

In today's era of changing technology, artificial intelligence is playing an important role in the education sector. We see the use of role of in any aspect of the education sector. This includes providing education according to individual needs, facilitating the teaching process, conducting educational evaluations and preparing educational materials. Artificial intelligence is used in various aspects and processes such as providing immediate feedback to students about any problem. at the same time, challenges such as accuracy of information, students' self-reliance on technology, academic honesty, privacy and digital inequality are seen. In this research paper, the role of artificial intelligence in the education sector, its negative and positive effects, impact on teachers and students and possible future directions, etc. have been studied. Artificial intelligence is not a tool that provides an alternative to teachers, but is used as a technology that increases the efficiency of teachers so that it will be more useful for various teachers the conclusion presented in this research paper.

Keywords: *Artificial Intelligence, Education, Personalized Education, Teacher, Student, New Technology. AI*

Introduction

In today's digital era, various advances in science and technology are bringing about a huge change in the field of education. Along with traditional classroom education, we see the increase in the use of online education, digital tools, smart classrooms, and educational apps in the education sector on a large scale. In the next phase of this change, we see that artificial intelligence has also created an important place in the education sector. Today, we can see the use of artificial intelligence in any educational field on a large scale. The concept of artificial intelligence is related to technology, in which artificial intelligence is computer intelligence is related to technology, in which artificial intelligence is a computer technology that enables systems to perform tasks related to human intelligence. This includes understanding language, analyzing various types of information, generating and answering questions, recognizing patterns, and responding to situations. Various such tasks are associated with artificial intelligence, and all these aspects are included in artificial intelligence. Generative artificial intelligence tools like ChatGPT can help students with their academic helping for progress. Answering any question of the student as well as planning the teacher's lesson, preparing question papers, preparing answers to question papers, artificial intelligence is considered a very useful tool for students and teachers. It helps the teacher to solve various types of problems and artificial intelligence can also be useful for solving various problems of students. However, the use of artificial intelligence in education is not just a technical issue but is related to educational, social and ethical issues, so it is necessary to study the impact of artificial intelligence in a balanced way. Artificial intelligence is as useful as it seems to be, but it is also difficult. In this, the students or the person who uses artificial intelligence are satisfied with the question. But at the same time, many types of threats can also arise in front of artificial intelligence and those who use artificial intelligence, including the threat of self-reliance, academic integrity, the threat of misinformation. There can be various types of obstacles such as the threat of privacy and data security, as well as digital inequality. Therefore, to the extent that artificial intelligence is beneficial from the user's point of view, it can also be harmful. Therefore, while collecting any information, it is the need of the hour to know whether that information is reliable or not.

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The use of artificial intelligence in the education sector can increase the level of literacy among students and society as a whole. They get answers to various questions of teachers, which increases their morale. The use of artificial intelligence creates morale among students and encourages their progress. It enables students to collect various information, which helps them to gain expertise in the field of research and any field of education. Since digital facilities are available and used, many questions are solved, so the country becomes self-reliant, inequality in the country is eliminated and poverty is eradicated. As a result, the country becomes self-reliant, the economic development of the purpose is achieved and the cultivation of ethical values is promoted to a large extent in the entire education sector. Therefore, in today's era of federalism, the use of artificial intelligence in the education sector is the need of the hour and any students and teachers need to change with the times. Whatever changes with the times, it progresses and if we accept technology as it is, its progress slows down at that place.

Therefore, artificial intelligence has gained an important place in today's era of technology and artificial intelligence is seen as a leader in the education sector.Artificial Intelligence is known as an important technology that will transform the education sector. Different students and AI users complete their personal education, learn different languages, and create a sense of authenticity in the user. Artificial Intelligence is capable of facing any challenges faced by the user, so the learning ability of every teacher and student becomes more effective and they get the opportunity to learn according to their ability.

Objective of Study:

1. To understand the concept of artificial intelligence and its applications in the field of education.
2. To study the impact of artificial intelligence on student education.
3. To analyze the impact of artificial intelligence on the teacher's teaching process.
4. To identify the educational and ethical challenges posed by artificial intelligence.
5. To suggest measures to make the use of artificial intelligence in education effective.

Research Methodology:

For this study, secondary data has been generally used. The major sources of secondary data are the information provided by financial institutions, population census, statistical reports, development indicators of Maharashtra, annual survey of education institute, data from reference books, research journal, and libraries and Academic research reports, various books, reports of educational institutions, policy documents and available online reference materials have been studied. The nature of this study is descriptive and analytical etc.

Impact of Artificial Intelligence on Students and Teachers:

Students can benefit greatly from the use of artificial intelligence, in that they get answers to their questions immediately and get additional explanations about the question, and if there is a complex question, it is left in various examples, thus helping students learn at their own pace and according to their ability. Artificial intelligence is changing the role of the teacher to a great extent. Teachers can plan their lessons, teachers are able to answer students' questions correctly, this increases the morale of teachers to a great extent and teachers are motivated and encouraged to teach.

Importance of Study:

1. **Personalized education**: Every student has different education needs and abilities. Therefore, by identifying the abilities of such students, artificial intelligence can solve the students' questions and practice various questions and provide students with the ability to learn according to their abilities, so that students can take individual personalized learning and develop students.
2. **Instant Feedback**: When students give feedback about a question and the answer to that question, the AI analyzes it and expresses its feedback, giving students the opportunity to understand their mistakes.
3. **Assistance to Teachers:** Various types of teachers are helped in preparing questions about their planning, who to give examples to students and various information can be collected related to the curriculum, and the teacher is able to answer questions and answers to students by analyzing the students' questions in advance, so the work of teachers becomes faster with the help of artificial intelligence.
4. **Language Education**: Using various types of artificial intelligence, students and teachers can easily find solutions to questions based on translation, grammar checking, writing correction, conversation practice, and vocabulary building. Artificial intelligence can greatly benefit and be of great help to them.

Limitation & Negative Impact of Artificial Intelligence on Education:

1. **Risk of self-reliance:** If every student and teacher gets their questions answered through artificial intelligence, then the students and teachers will not be able to think independently and will be unable to solve any complex problems on their own. Students and teachers will not study deeply using artificial intelligence, which will negatively affect their personal progress.
2. **Academic Integrity:** When students submit questions and answers and essays or research papers created with the help of artificial intelligence to teachers under their own names, there is a high risk of creating problems related to fake writing and academic integrity. Therefore, the information obtained from artificial intelligence is not trustworthy for students and teachers and there is a risk of creating problems in the subject honestly.
3. **Incorrect information:** The information collected through artificial intelligence may not be accurate. Sometimes the information may be incorrect or incomplete. This makes it difficult for the student to analyze the information obtained and it is not clear who the sources of the information are. Therefore, if

any information is obtained through artificial intelligence, it is not necessarily accurate

4. **Privacy and Data Security:** Since the personal information of students and teachers using artificial intelligence and their academic performance are used in an artificial system, privacy and data security issues may arise, because the students and teachers as well as the person using artificial intelligence are collecting all the information from above in the Trinity and such information is already disseminated, hence the issue of data security may arise.
5. **Digital inequality:** Not all students and teachers have access to the same quality of equipment, not all have access to internet facilities, and artificial intelligence tools, which can lead to increased educational inequality. Even today, in rural areas, there is a high possibility of educational inequality among users of artificial intelligence, as there is no access to internet facilities and basic internet facilities to the same extent.

Co-ordinations between artificial intelligence and traditional education:

In today's digital age, we see that artificial intelligence has played an important role in the educational sector and various aspects related to the education sector, and we see anyone using artificial intelligence today, but artificial intelligence should be used as a complement to traditional education, not as a replacement for it, because in the traditional education system, teachers and students come face to face and coordinate in it. The answers to various questions are actually between students and teachers. Therefore, when students get their questions answered by the teacher, the traditional education system has also gained equal importance. In the traditional education system, teachers and students interact and class discussions, experiments, group work, indirect experience, these things are experienced by students directly in the traditional education system, so artificial intelligence education cannot be a complete alternative. In education, it is more important to develop the attitude of thinking with the help of artificial intelligence than getting answers from artificial intelligence. It is necessary to develop the ability of students by analyzing the information obtained from artificial intelligence and comparing it. If every teacher creates such ability in their students, then artificial intelligence will be used in the right way and it will not take long for the country to develop.

Measures Suggestions & need to be implemented for the proper use of artificial intelligence in the education sector.

1. Provide artificial intelligence literacy training to every student.
2. Provide training to every teacher on artificial intelligence based educational tools.
3. To develop in students the habit of verifying information generated by artificial intelligence
4. Making clear rules about academic honesty.
5. Protecting the personal information of each student.
6. Giving greater priority to human thought power and creativity when using artificial intelligence.
7. Digital facilities for students from rural areas and economically weaker sections
8. Cultivate the value of regular educational leadership in the use of artificial intelligence.
9. Efforts should be made to prevent the collection of any kind of misinformation through artificial intelligence.
10. Not to re-establish information and data collected through artificial intelligence.

Conclusion:

Artificial intelligence is a key technology that is transforming the education sector. The impact of artificial intelligence on education is reflected in these research articles in various ways. It shows the significant contribution of artificial intelligence in areas such as personalized learning, instant feedback, and various types of teacher and student assistants, language and inclusive teachers. However, at the same time, challenges such as self-reliance, misinformation. Academic integrity. Privacy and digital so-called. Therefore, every student and teacher should avoid using artificial intelligence blindly. When did the users of artificial intelligence pay attention to this? Instead of completely avoiding the use of artificial intelligence blindly, it should be done responsibly, ethically and educationally. That is, the collaboration between teachers and artificial intelligence will be important in the future education system. Artificial intelligence can provide information and technology support. But the role of the teacher will remain central in developing values, ethics, critical thinking, creativity. Empathy and social skills in students. Therefore, rather than "Artificial Intelligence is a substitute for the teacher", Artificial Intelligence is a tool that shares the capabilities of teachers and students. This approach will be more suitable for the education sector.

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Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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