

STUDY OF ARTIFICIAL INTELLIGENCE AND ITS IMPACT ON THE EDUCATION SECTOR IN INDIA

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Abstract:

Challenge before every underdeveloped country is to cater to the poor by providing them basic facilities. Providing services to every person at all strata is becoming possible with the help of technology. Notwithstanding technology, providing services effectively and in time is a perennial problem for every highly populated country. It becomes worse when population disperses in wide distances in countries like India. Reaching to every potential recipient becomes a cumbersome task for the government and charitable foundations to serve these needy people.

With the emergence of Artificial Intelligence and its active use in every sphere of human beings' life makes life easy for the corporate world and government to reach unreachable. Artificial intelligence has the potential to provide quality and personalized education at low cost to every prospective recipient. It will be a breakthrough in the field of education. The present study will focus on artificial intelligence and its impact on education.

Keywords- Technology, Artificial Intelligence, recipient, education, accessible.

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Introduction:

A very recent and popular example of artificial intelligence is self-driving cars. Artificial intelligence is able to solve difficult problems very promptly, make decisions, help us to comprehend difficult things and will be as creative as humans are. In most of the sectors, it is replacing human intelligence. It will be used as supportive technology for human beings to minimise their work and human intelligence can be utilised in many productive tasks. Evolution is undergone through Artificial intelligence like Machine learning, deep learning, and Generative AI. Artificial Intelligence can be used in every sphere of human beings' life and in businesses. It will help to make every activity of business much smoother, effective, and productive as well.

Objectives:

1. To understand Artificial Intelligence.
2. To know the impact of Artificial Intelligence on the Education sector in India.

Impact of Artificial intelligence on the education sector in India:

1. **Effectively Reaching education in the remotest provinces of India:** Due to lack of school and colleges in remote areas and inadequate facilities of transportation, most of the students from those villages remain deprived or drop their education in India. Artificial Intelligence is the technology which can be used to bring those children in the realm of education.
2. **Emerging trends of the industry can be easily taught in education:** Corporate world always complains that passing out graduates from the colleges are not employable. The knowledge and skill the students learned in the education institutes are outdated, this complaint is not always right. With the help of AI, faculties can impart knowledge and skill which is required for industries.
3. **Translation in the local languages:** Language barriers can be reduced to a great extent with the use

of artificial Intelligence. In some cases, language barriers can be totally removed. AI will help to translate available knowledge and information in local languages which is easily understood by the locals. Some recorded videos available in local languages are also being watched by students to learn difficult concepts.

4. Customised syllabus as per students need: In the field of education, syllabus is foremost and important components where much attention needs to be given. It should be updated and conform to corporate and entrepreneur skills. Artificial Intelligence can be used to frame syllabus as per the need of the syllabus.

5. Automaton of routine administrative task: Teaching and non-teaching staff are sometimes busy with repetitive tasks. Routine work can be automated with the help of Artificial Intelligence as done in banking and many other industries. Used AI will save time, energy and intelligence of personnel working in the education sector and which can be utilized for more important activities.

6. Inclusive educations: Taking quality education is the right of every child and it is a duty of the government to provide education every child. The Government of India is taking every possible step to enrol every child in the school. Artificial intelligence can be used to provide affordable education to children of all strata of the society, irrespective of their economic and social background.

7. Protection from piracy and unethical practices: Plagiarism has been tremendously increased in the research. Unethical practices and piracy of ideas have also been increased in the field of education. Artificial intelligence will help to curb that by identifying the culprit involved. Books which are being copyrighted have been illegally reprinted through unethical ways.

8. Training and development of teachers: One of the important stakeholders in the education sector is the teaching staff. Training and development of the teachers is foremost to provide quality education to the students. Artificial intelligence can provide the best knowledge of the world to teachers sitting in any part of the country. Regular update of knowledge and pedagogical skills is a prerequisite to enhance teaching quality.

9. Virtual quality circles of teachers: Artificial intelligence will help the teaching fraternity of universities from all over the world to work together through virtual platforms. Ideas and knowledge can be shared with each other through AI technology. It will create a positive impact on education by understanding the development happening in various counties.

10. Education can be provided to a large number of students at a time: The very powerful impact artificial intelligence is making on education is that a large number of students are attending lectures at a time. Best faculties of the world can reach all those students who are interested in attending their lectures.

11. Support to special students like who have some impairment or learning disability : Technology has been helping special students in getting education. Students with impairment can attend classes which are especially customised for such students. Artificial intelligence is playing an important role to provide the best education to students having learning disabilities.

12. Reduced examination work: Lot of resources including manpower is used to conduct and declare results of the examinations is a herculean task for all the schools, colleges, and universities. Artificial intelligence can be utilized to conduct examinations of students sitting in various parts of the world.

Time, energy, and money can be saved if we use AI to conduct examinations.

13. Learning through simulation: Through artificial Intelligence, experiential learning or simulation can be used to give better learning experiences to students. Methods of teaching and learning can be advanced and enhanced to give practical experience to learners in the classrooms. Various avenues are available in technology and that can be used to make learning practical and enjoyable.

Conclusions:

Personalised or one to one attention can be given to each student with the help of artificial intelligence. The strengths and weaknesses of the individual students will be considered while imparting education to students studying in the same class. AI will attract students' engagement by creating a unique style of teaching and learning. People are worried after the emergence of Artificial intelligence but the same technology can be used as an aid for human beings in various activities which are laborious. Educators must understand that AI is to augment and enhance the role of teachers and not to replace them. Teachers should be trained and skilful to make good use of technology like artificial intelligence.

References:

1. Ishfaq Majid & Y. Vijaya Lakshmi, *Artificial Intelligence in Education, The Indian Journal of Technical Education*, Vol. 45 λ No. 3 λ July - September, 2022.
2. Gurumurthy Kasinathan Yogesh K S, *Exploring AI in Indian school education*, March 2019.
3. A. Arvinth & Dr. Geeta, *Effects of Artificial Intelligence on Academics in Higher Education in India: An Empirical Study*, *International Journal of Novel Research and Development*, Volume 9, Issue 5 May 2024.
4. Dr. Gunjan Dubey, Dr. Mohammad Hasan & Mr. Aftab Alam, *Artificial Intelligence (Ai) And Indian Education System: Promising Applications, Potential Effectiveness And Challenges*, *Gujrat university*, June, 2022. Vol.14. Issue No.2.
5. Rajesh Saxena, *Role of Artificial Intelligence in Indian Education System*, *Integrated Journal for Research in Arts and Humanities*, Volume-2 Issue-5 || September 2022 || PP. 104-107.
6. Dr. Aditi Sharma, *Role of Artificial Intelligence in the Indian Education Sector: A Systematic Literature Review*, *International Journal of Science and Research (IJSR)*, Volume 12 Issue 6, June 2023.
7. Gurumurthy Kasinathan, *Making AI Work in Indian Education* *Friedrich Ebert Stiftung India*, January 2020
8. <https://yourstory.com/2024/09/ai-transforming-education-india>
9. <https://bestcolleges.indiatoday.in/news-detail/ais-role-in-reshaping-indian-education>
10. <https://www.hindustantimes.com/ht-insight/future-tech/need-for-leveraging-ai-in-indias-education-sector-101716450004610.html>
11. <https://community.nasscom.in/communities/emerging-tech/impact-artificial-intelligence-future-education>
12. <https://www.nextias.com/ca/editorial-analysis/21-06-2024/artificial-intelligence-in-education>
13. https://icrier.org/ipcide_events/ai-in-school-education-impacts-and-challenges/

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