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Artificial Intelligence in Educational Environment: A Transformational Trend

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Abstract

The use of Artificial Intelligence (AI) is now an input issue of education. A trending input emerged a trending solution which helps in some modern way. Due to pandemic of covid-19, AI has occupied a bigger place in the field of education. Education has come out from the Gurukul system or the traditional mode of education and accepts the use or application of technology in educational sectors. Once a time technology had some limited programming but now-a-days technology can do whatever which human want. When technology emerged human intelligence and works as human direction, human need then this new technology named as Artificial Intelligence. In the present study, an effort has been made to find out that how AI takes place in the journey of Indian education and also western education system from the beginning of education to the present day. Our observation from past studies is that AI is the only way to continue the education system during of all academic institutions worldwide Tilak, G. (2020). Furthermore, our observation revealed that AI has a broader sense of utility in education and through the use of AI; individuals get a better outcomes in educational field.

Key Words: Artificial Intelligence, Educational Environment



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Introduction:

Education is a journey of our lives which gives the art of living, the art of behaving with others and helps us to learn how to manage conflicts and make lives more creative. Education also a training process of mind to think, to work effectively for the society, think to develop critical thinking and problem-solving skills. Education creates a new era in human life. Now a day's education may be treated as a big trend to students, teachers, research scholars and all academicians. During its inception, education was a material of learning, but now-a-days it practiced by the learners through new ways of learning. In this study, an attempt has been made to make a clear note on the developmental stages of Indian and as well as Western systems of education.

In Indian context, from the 3rd century till now education brings a drastic change in teaching method and learning style also. At one time delivering style of educational materials was bounded only in teachers and students as face to face interactions but now-a-days education in not bounded in any condition, it is an open source to all, and it is vast area for the think tank (group of experts to provide advice).

In the light of the history of Indian education system, it may be categorized by generations from Gurukul to today's era of education that how AI emerged with a need and flexibility:

- Education in the first generation was the system of Gurukul from around third century BC. In this system of education, education was teacher centric and the students or scholars who were Brahmans taught Mantras and Vedas for getting knowledge. As we are saying transformation trends, is it only for India. Other sections of the society like

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Kshatriyas, Vaishyas, and Shudras were provided their education according to their working capabilities. Kshatriyas were trained for war skills, Vaishyas trained for business skills and Shudras were trained for different works related to household works. In this system of education students were seen as receptors of knowledge.

- In the second generation of education started a greater interaction between teachers and students and allows the interactions between content and users. With the second generation the system had started the revolution of printing in India. Here teachers were the main stakeholder in the education system and students started to be mastering the knowledge of the content rather than books. Here the rote learning system had included to the education and the students were bounded to the textbook content.
- In the 19th century, the discovery of computers and Internet gradually changed the education system. Third generation of education (21st century) has integrated technology to the learning process. This blended system of education provides a better understanding of concept to develop critical thinking and problem-solving skills. Here technology makes a platform of digital learning which was based on learners. Information and communication technology are the big entry to the education system for digitalization of educational platforms.
- Now a day's education is a big challenge to all students, teachers, scholars and other academicians to get a new platform to emerge a new way of educational approach that conduct a digital base of teaching learning. During pandemic from 2019 to today education stands with a pillar which is completely opposed to traditional system of education. Here a key factor plays a role to simplify the burdens of education and implementing the flexible way of learning which Artificial Intelligence is.
- Artificial Intelligence can ensure that educational classrooms can become globally available to all students using digital textbooks, online virtual mode of teaching. Artificial Intelligence can include a new era of 24 × 7 assistance, students can learn through Artificial intelligence, can solve their problems immediately also. Artificial Intelligence informed as a global trend worldwide to the educational sector.

This transformational approach from Gurukul system to artificial intelligence is now became more human friendly, more flexible and quick accessible to students. Students can enjoy the transformation of educational system from the traditional one. This transformation is now a trending approach all over the world.

In the context of Western education,

- International education refers to a dynamic concept that involves a journey or movement of people, minds, or ideas across political and cultural communication. The concept involves a broad range of learning, covering, for instance, [formal education](#) and [informal learning](#) (e.g. training, [exchange programs](#), [cross-cultural communication](#)). It could also involve a reorientation of academic outlook such as of "world mindedness" as a goal academic focus is considered [international](#). International educators are responsible for "designing, managing, and facilitating programs and activities that help participants to appropriately, effectively, and ethically engage in interactions with culturally diverse people and ideas.
- The last decade has seen unprecedented growth in technology. This advancement has affected every facet of human life on the face of the earth. From food to academics, everything is influenced by technology today. From taking the perfect pictures on our smartphone cameras to car parking sensors, we might not even realize; Artificial Intelligence has become dependency in every aspect of our day to day life. There has been a paradigm shift in the whole process of education, for it has become more automated and technology-driven. AI is responsible for turning the entire education system around among numerous technological advancements all over the world. Statistics showed that by 2024 upwards of 51% of all learning management tools will be powered by AI in the world education system. AI will significantly influence education by achieving greater individualized teaching-learning through its machine applications. This is referred to as Hyper-personalization, boosted by on-demand digital content customization as per student's need.
- AI also accelerating and automating administrative management for organizations and their teachers. From evaluating homework to the grading process in exams, it is time-saving, thereby facilitating more one on one time with students. Smart Contents are another vertical of AI programming in education; it enables robots to create educational contents with accuracy to their educational need worldwide.
- AI has facilitated distance education for people from all over the world, and it has enabled a computer-based connection to classrooms and institutions across the globe. The AI-powered software makes finding your dream educational institution, easier by providing in-depth details about various international universities, courses offered, locations, eligibility, and student services. From paying the fee to filling multiple applications to multiple



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universities, AI has made everything more accessible and time-saving in international education and also AI can predict the future scopes of inclusion new programming in education worldwide through the assessing of AI.

- Artificial intelligence (AI) has entered the higher education system, both hypothetically and in practically. According to Global Market insights, AI in the education market exceeded \$1 billion in 2020 and it will be expected to grow at a compound annual rate of over 40% between 2021 and 2027.

Artificial Intelligence (AI) in International education curriculum:

- The connection between AI and education involves three areas: 1.learning with AI which includes the use of AI-powered tools in classrooms, 2.learning about AI with its technologies and techniques in classrooms and 3.preparing students for AI to enable all citizens to better understand the potential impact and the practicability of AI on human lives.
- The “Teaching artificial intelligence at school” project currently focuses on the two connections: The goal is to contribute to both the human and technical aspects of AI into programmes for school students. It begins with the capacity development of curriculum developers and master trainers from selected national institutions to empower youth students.
- To generate all these outcomes UNESCO is supported by an International Advisory Board. The Advisory Board is a group of experts (in AI, education, the learning sciences, and ethics) appointed by UNESCO to develop the AI skills framework for K12 schools and to review the repository and workshop outline
- International organizations of [BEIJING conclude an impact factor on Artificial Intelligence and Education](#), at the [International Conference on Artificial Intelligence and Education](#) held in BEIJING from 16 to 18 May 2019. It is the first ever document to offer guidance and recommendations on how to respond the opportunities and challenges brought by AI for accelerating the progress towards SDG 4.

Concept of Artificial Intelligence (AI):

Artificial Intelligence is the ability of a computer or smart phones or a robot which controlled by a human intelligence. It is the capacity given by humans to the machines to memorize or to learn, to create or to think, to judge or to precede and finally to predict a decision. Some basic concepts of AI are given below:

- How computers can think which people can think
- How computer can do the things better that people can do
- How the computers solve problems which require knowledge and intelligence
- The ability to perform a task controlled by digital computer
- How peoples can be smarter for getting information than they are
- How digitally teachers assist students for learning
- It is a concept of constellation of many different technologies working together to enable machines to sense, comprehend, act or learn with human-like level intelligence
- AI makes possibilities for machines to learn from experience, adjust with new inputs and perform human like task.
- A relation or adjustment between human memory to computer memory
- The automation of activity that we associate with human thinking.

Why study of Artificial Intelligence (AI)?

Studying artificial intelligence opens a world of opportunities. AI enhances the speed, precision and effectiveness of human efforts. There are some reasons behind the study about AI, which are:

- AI makes computers more useful, so that humans can input their thoughts to get better outcomes
- AI cited as “field I would like the most to be in” by scientists in all fields of education, AI helps to recharge human mentality and converted mental process from monotony system to digitalization. So, when a person thinks that he or she do the work and motivated the entire field then he or she can.
- Computer is a good metaphor for talking and thinking about intelligence. The brain’s computational capacity, memory and ability to reason are used by humans but AI- powered computers rely on data and particular instructions provided into the system.
- Turning theory into working programs forces us to work out the details
- AI yields good results for computer science. AI is a wide-ranging branch of computer science concern with building smart machines which are capable for performing task when human required.
- AI yields good results for other fields such as online information gathering, data storing, other commercial apps using (amazon, flipkart) etc.



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- AI become highly successful in motivating and promoting the students, teachers and other academicians for engagement of nurturing knowledge to the several platforms such as effective decision making, experimentation and information sharing by using the system of input-process-output of computer data.

Concept of Educational Environment:

The term educational environment can refer to an educational approach, cultural context, or physical setting in which teaching and learning occurs. The term is commonly used as a more definitive alternative to 'classroom', but it typically refers to the context of educational philosophy or knowledge experienced by the student and may also include a variety of learning cultures, its ethos and characteristics, how individuals interact, governing structures, and philosophy.

In a societal sense, educational environment may refer to the culture of the population it serves and of their location. Learning environments are highly diverse in use, learning styles, organization, and educational institution.

Educational Environment (EE) refers to organized framework of teaching and learning that efforts to teach how natural environments function, and particularly, how human beings can manage behaviours. It is a [multi-disciplinary](#) field of integrating disciplines.

The term EE implies education within the school system, from primary to post-secondary. However, it sometimes includes all efforts to educate the public and other audiences, including print materials, websites, media campaigns, etc.

Educational environment should be characterised such as;

- Flexibility, openness, access of educational resources
- Design based on extensive research on education
- Overall quality in education which is accessible to students
- All school facilities under one roof with the guidance of faculties
- Building facilities to curriculum development
- Active learning is a part of EE that focuses responsibilities of learning on learners

Statement of the Problem:

During the primitive era it was unknown to the people that how to study through technology. But due to the gradual advancement of technology, the mankind started the use of various types of technology in their day to day life. Knowingly or unknowingly, consciously or unconsciously. Suddenly the COVID-19 pandemic initiated a vast change in the total system of human life throughout the globe. This pandemic forced the education system to be depended totally on technology, or good to say on AI. The present researchers found that AI has gradually entered in education system and creates a new era of digital education instead of the traditional one. From this view point the researchers stated the problem of the present study as "Artificial Intelligence in Educational Environment: A Transformational Trend".

Significance of the Study:

All the students and teachers of school, colleges and universities around the world now-a-days habituated with online classes and to assess education without any geographical barriers. The use of AI programming considered as a part of education. The integration of AI widely used for virtual classes, data gathering, online assistance, video conferencing and more other fields. So the researchers of the present study think that pandemic situation from 2019 created a barriers towards the traditional education and Artificial Intelligence is the only way to break all these.

Research questions:

The researchers framed the following research questions for the present study:

- How AI can make a meaningful role in Education?
- How AI entered in the education system?

Research Review of Related Studies:

The investigator reviewed various research journals, research abstract, academic and educational journals, Ph.D. and M.Phil. theses, books, presentation paper of various seminars and others to collect the related study on artificial intelligence.

Some related studies in relation to present study are:

- Chen, L. and Chen, P. (2020) conducted a study on "Artificial Intelligence in education: A review". The purpose of the study was to assess the impact of AI on education and the scope was limited to the application and effects of AI in administration, instructions and learning. The qualitative research approach was followed in the study. The study ascertained that AI has extensively been adopted and used in education particularly by educational institutions.
- G. Hoe-Han and V. Ricardo (2021) jointly conducted a study on "Regulating artificial-intelligence applications to achieve the sustainable development goals". In this context, the researchers support the development of SDG goals



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on digital technologies. The researchers gave importance of establishing standard AI guidelines and regulations for the beneficial applications of AI.

- Holmes, W. Bialik, M. Fadel, C. (2019), made a study on “Artificial Intelligence in Education”. The subject of the study was worldwide business and role of government. In that study the researcher discussed about the works of AI in education and narrated brief history of implications of AI in education. The result revealed that AI in education enhance the chances of an individual’s personal and professional success and provide a common base of understanding and ability to participate in society.
- Lu, Y. (2019) conducted a study on “Artificial Intelligence: a survey on evolution, models, applications and future trends”. The matter of this paper was about the integration of emerging technologies. The researcher followed a multi-stage systematic analysis of AI. In this paper researcher was doubtful that AI become an innovative and revolutionary assistant in a wide range of applications.
- Roll, I. and Wylie, R. (2016) jointly conducted a study on “Evolution and Revolution in artificial intelligence in education”. The study reflected on the impact of education in next 25 years- one is evolutionary process and the other is revolutionary process. This paper focused on an empirical study and collected data from 1994. This project demonstrated the power of reusing existing technologies in creative ways.
- Tilak, G. (2020) made a study on “Artificial Intelligence: A better and Innovative technology for enhancement and sustainable evolution in education System”. This paper intended to explore the rise of use of artificial intelligence in education system along with its impact. The researcher analyses how artificial intelligence can be used for sustainable development in education system till today. The researcher collected data from the respondents. The researcher concluded that AI was a better and innovative technology for the enhancement of educational quality.

Research Gap:

After reviewing the above mentioned studies it was observed that no specific study was conducted on the topic which was decided for the present study. So, to fill-up this gap the present researcher opined to conduct a study on “Artificial Intelligence in Educational Environment: A Transformational Trend”.

Methodology of the study:

This study used the qualitative methodology for educational research for the present study. The study focused on the impact of AI in the field of education. To answer the research questions of the study, the researchers analyzing the content of AI and present that how AI helpful in the field of education and how AI plays a key role during the pandemic situation, how AI assist the students as well as teachers for their needy queries and also provide the predictive data as per their need and preferences.

Design of the Study:

The researchers used peer reviewed journals, papers, student’s and teacher’s experiences to elaborate the advantages of AI. With the help of student’s and teacher’s experiences the present researchers can delimit the programming of AI.

Analysis of the Study:

Pertaining to the research question 1 the present researchers observed that

- **Automatic Tutoring-** AI tutors are being vastly used in classrooms to boost self-confident of students and help students better retain critical information. AI helps teachers to fill the gaps where their students are in most need of learning and AI can provide the high quality learning material.
- **Automated Grading-** AI paper grader is a highly efficient software that quickly grades research papers and assignments within specified time. AI grading software combines human understanding with machine learning that evaluate typically and evaluated by humans. AI makes a prominent role in digital learning, making it more critical than ever the implications of AI based or Automated Grading is considered.
- **Automated Personalization in Education-** With the use of AI, students can assess or understand their study by own. AI can personalize total education in the hands of students. Using AI to personalize every student's learning is a way of implementing an individualised learning environment. Technology can provide each student with individual learning material based on their knowledge gaps and learning preferences. Technology has been playing important role in addressing learner advancement of personalized learning. Students can adapt learning materials by using digital tools to process information.
- **Automated Feedback to Students-** Automated Feedback tool improves student’s academic writing skills by giving instant feedback on specific criteria with the use of the power of AI. It gives an idea of what the students expecting and helps you make important decisions to improve overall experience with feedback. For example, B2B User



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Feedback Tool Keep tracks *feedback* to build better products, View Pricing, request A Demo, and View Case Studies.

- **Smart Content-** With the help of AI, students can customize contents as for their requirements, digital learning materials, and digitalized guidance of textbooks; which can make a level of confidence to the students in their study. While searching a book; AI can assist how many options we can try, on the other side while we are searching some meaning of content; AI provide various detailing of the content that make a content smarter than our thought.

Pertaining to the research question 2 the present researchers observed that

- **Global Classroom-** Through the concept of Global Classroom students can attend the classes while staying far away from their institution; also students can interact with peers while staying away. In the era of pandemic situation, create a classroom of AI variable provides drastic change worldwide. The communication system of teacher-student becomes flying mood from one country to another and it is possible only for creating global classroom.
- **Customized Content-** Students can make a platform of digital content due to lack of hard material with the use of digitized guides of textbooks, digital learning interfaces, AI-based assistance, and AI-based assessment. On the way of searching one content AI provide various ideas about that one content, so that students can make own visualization about the need and preference of their own. Technology can provide fastest information but AI can generate new ideas about the existing content.

Role of Artificial Intelligence in Educational Environment:

The big entry of AI in the whole education system when the allover world facing a big challenge to continue education. AI has proved that it is the only way of education worldwide. Without the applications of AI, it is impossible to continue education during the closure of schools, colleges. Let's have a look that how AI makes a strongest platform in education:

- **Innovative education:** Machine learning and AI are the key drivers of growth in innovation across all industries, and the education sector is no different. According to e-learning industry, upwards of 47% of learning management tools will be easily enabled with the applications of AI in next years. So the learning procedure presents a innovative assisting support of AI which advanced human knowledge and innovate human thinking.
- **Personalization:** Personalization is one of the biggest trends in education since 2019 pandemic worldwide. AI helps to find out what a student does and does not know, creating a personalized learning schedule for each learner considering the knowledge gap of students. In such a way AI train the students to their specific needs and efficiency, So that AI can define and represents knowledge gaps. AI can reach every student's knowledge level, speed of learning and helps in brain storming to emerge new ideas.
- **Cognitive Modeling:** Cognitive modeling is an area of computer science that deals with human problem solving and mental processing. Cognitive computing will give rise to personal cognitive assistants for students and teachers. Such as when we find something with the use of networking, AI makes us extra cognitive knowledge to the related facts. AI can make possibilities for the advancement of human cognition.
- **Teaching-Learning:** Teaching and learning are the challenging programs from the spreading of Covid-19. The power of AI can help teachers by analyzing each student's specific needs through the use of some AI programming such as chatbot (Chatbot can support students in finding course details quickly by connecting them to key information. Chatbots, also called chatterbots, is a form of artificial intelligence (AI) used in messaging apps. This tool helps add convenience for customers—this automated programs that interact with customers like a human and Chatbots provide live communication which makes Customer Service Available 24/7.

AI is the only way to break down the silos between schools and traditional method of education. AI can enable new ways of learning with the help of supporting programming and converted the system of education in online mode which make a new challenge to the learners how to recognize the adorn way of education through mobile learning such as chatbots provide specified topics to students through multimedia such as images, videos, audio and document files etc. For example, chatbots hands them out all learning material required them takes questioning or tests and submits their response or results to their teachers- this is the system of teaching-learning through Chatbot.

Impact of Artificial Intelligence on Education:

- **Data Storing-** AI is a collection of technologies that excel at extracting insights and patterns from large sets of data. AI can use those insights and patterns to make predictions about what drives outcomes. Also It can learn to improve its predictions over time. Data storage is the storing of information or data in a storage medium. Handwriting, phonographic recording, magnetic tape, and optical discs are all examples of storage media. AI is the only way to store the data or content and help to reuse those data when required.



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- **Automated Speech Recognition (ASR)** - Speech recognition is an interdisciplinary sub field of computer science and computational languages that develops technologies which enables the recognition and translation of spoken language. ASR is the technology that allows human beings to use their voices to speak. ASR uses AI technology of NLP, ML, and deep learning to process voice data input. ASR is the use of machine learning or AI to process human speech in readable text and also helps in automatically generate text content to easily search content, translating the lectures to the other languages.
- **Virtual Agent-** A virtual agent is a contact Centre capability that uses a virtual character and created through the use of computer generation, animation and Artificial Intelligence (AI) via chatbot. An AI powered virtual agent can do many things that a live agent. Using AI.
- **Deep Learning Platform-** AI can touch the need level of students when they can't use the physical learning support of teachers. Deep learning is a platform where AI imitates the way of human gaining of certain types of knowledge. Deep learning is an important element of data science. Machine learning is a subset of AI that helps to build AI driven applications, whereas Deep learning is a subset of AI that uses vast data and complex algorithm to train a model.
- **Decision Management-** Now a day's AI approaches help to the process of management when guidance will need for the cognitive or mental support to the students. Students can get extra knowledge by AI to fulfill the knowledge gap.
- **Robotics Automation Process (RAP)** – RAP can prepare student grades and progress reports on the basis of their mark in examinations and in many other activities. RAP process likes creating documents, filling forms, granting approvals or generating reports for faster working service. Using RAP human can interact with one or more software applications to perform tasks such as data entry, standard transaction.

Disadvantages of Artificial Intelligence:

Despite of the benefits of AI, there are some disadvantages that we cannot ignore. Those are:

- High cost of implementation, setting up AI based machines, computers etc.
- AI can't improve with human experience
- It introduce new and unique interface for human interaction, It is not make personal interaction
- Lack of creativity because of all the works has been done by individuals, so human can't think
- A robot might not be as good a teacher, so it may not be the substitute of teacher
- AI does not have emotions; Students don't feel that they are being cared for by the AI when they are being lectured. Even if they do not get the responses of all questions from the AI throughout their teaching learning process.

Conclusion:

After the discussion about AI, we can conclude that AI is the intelligence of machines and the branch of computer science that aims to merge the machine with intelligence. However, there are some negative aspects to Artificial Intelligence in education as well but also this is an emerging field, and it's being studied at universities worldwide where AI are the working programming on developing AI technologies that improve our lives. Artificial Intelligence can also be used to provide students with adaptive learning where it adjusts the pace of instruction based on how each student is performing with AI. AI working as assembles of data which provide assistive and predictive guidance. For example, at the time of searching at Google, after writing one or two letter Google is able to predict the possible words that an user intend to search. AI provide a new answer or predict the data which an individual needed to search, also AI gathered the information about the gap of knowledge on the basis of existing one. AI is the stair through which human can reach the level of confidence, level of knowledge which is based on AI approach. AI now a human friendly approach to any kind of prediction, so that we can relate AI to our mental process. According to this research paper, AI is trending when the world would under the COVID-19 pandemic, and there was no option without AI. AI is not only a trending approach but also it is very much user friendly and quick accessible to solve a problem in educational field. AI can make a platform of better medical treatment, digital and flexible textbook for students.

Future Scope of Artificial Intelligence in Education:

- Computer may learn to think like human, AI can predict texts which human think.
- [AI powered robots work with humans](#) to perform a limited range of tasks like assembly tasks and stacking, and predictive analysis sensors keep equipment running smoothly



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- Improve medical care and treatment for the betterment. In the comparatively AI field of healthcare, diseases are more quickly and accurately diagnosed, drug discovery is sped up and streamlined, virtual nursing assistants monitor patients and big data analysis helps to create a more personalized patient experience
- Textbooks are digitized with the help of AI, early-stage virtual tutors assist human instructors and facial analysis gauges the emotions of students to help determine who's struggling or bored and better tailor the experience to their individual needs. AI will play a role for emotional balance of a human.
- Google is working on an AI assistant that can place human-like calls to make appointments, say. In addition to words, the system understands context and nuance through the working AI.

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