



Original Article

**THE EVOLUTION OF ARTIFICIAL INTELLIGENCE IN EDUCATION:
IMPLICATIONS FOR NEXT GENERATION LEARNING**

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Abstract:

Education plays an important role in the development of life, dealing with people and prepares oneself for various experiences in life. Education gives us a good career and better employment opportunities. Education helps us to acquire information in various fields and helps us to specialize in one particular field. Education from ages aims in shaping the holistic development of students aiming at how learning takes place, its role in society and guiding, teaching curriculum and policy especially with the NEP 2020. Education moves beyond subjects like instilling values, practical application, preparing individuals for life and not just exams. Education over the years has undergone changes from the traditional methods of teaching learning to AI driven learning, transforming from intelligent tutoring systems to modern generative AI, providing personal teaching all the year. This transition in education has inculcated adaptive learning and student engagement, gives immediate feedback.

Keywords: Education, Holistic Development, NEP 2020, AI, AI Driven Learning.

Introduction:

Education in the traditional era served as a venue for students to engage with their peers and teachers. Some innovative and creative classroom concepts were also used during this period where learning was experiential and learning was through authentic experiences. The concept of school has now changed. Previously learning was limited to communication between students and teachers through black and green boards.

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The present time the concept of learning has undergone drastic change. Smart classrooms, ICT enabled environments for learning, e classrooms and Intelligent ICT based environments using digital technologies, robotics and virtual and augmented laboratories which are so designed to meet the

unique needs of each student today. In teaching nowadays ICT has become an integral part the learning has become more interactive and has shifted from teacher centered to learner centric and motivating and equipping students to participate in information processing. The inclusion of ICT is



changing education, increasing the student involvement and performance making teachers to use these new techniques. As India is moving towards the 21st century rapid urbanization it faces both lot of opportunities and also at the same time there are challenges. Artificial intelligence provides unique opportunities to overcome these challenges. Artificial Intelligence gives individual learning experience and at the same time enables feedback system to support the students. It further assists the teachers in understanding the needs of the students and also helps in structuring their lessons according to their needs.

Objectives of the Study:

- 1) To study the concept of changing education system.
- 2) To understand the importance of Artificial Intelligence in enhancing teaching and learning experience.
- 3) To understand the challenges faced with the use of Artificial Intelligence.

Research Methodology:

The present research paper is based on secondary data. The data is collected from books, journals, research papers. The researcher has also used the observation method.

Education System:

This era is called the era of information technology. The entire world has become a global village. This era is also called as the era of competition and to survive in this competition one requires skills that will enable one to acquire jobs and succeed in their respective fields. In schools the students learn basics. Higher education refers to education that develops deeper knowledge into one's desired field and also engages themselves in research work in their desired field. The students

should not only possess good skills but should also have in depth knowledge of subject. The Indian education system has a glorious history of Gurukul system where the students lived with their teachers in their hermitages. The Gurukul system focused on holistic development, building the character through ethics and moral values. It also focused on developing practical skills through oral and live experience. Gurukul system also showed that there was a deep bond between the student and teacher. The modern education system was introduced in 20th century. Since then propositions of modern education system was followed till Indian Independence. After Indian Independence the leaders felt the need of reconstructing and restructuring the education system which in turn led to the formation of University Grants Commission. This education system had features such as free and compulsory education system, uniform education structure, enhancing quality of education. The 21st century marked drastic changes in the existing education system. The learning and teaching was learner centric rather than teacher centric. The use of ICT tools, globalization of businesses, emerging technologies, skills for 21st century job markets, rise of gig markets etc. Previously it focused on rote learning and theory. Now it focuses on practical application of theory and skill development. Thus we can see that there are drastic changes in the education system in India which on focused on practical application and skill development.

Importance of Artificial Intelligence in enhancing Teaching and Learning:

The fast changes in technology have also impacted the educational system. Artificial Intelligence is one of the most promising technological changes in education system all around the world. Artificial Intelligence also provide solutions to the increasing problems of educational



Institutions such as managing resources, addressing diverse learning needs and also preparing students for constant demand of changing environment. Artificial Intelligence also facilitates for rethinking on teaching methods evaluation of these techniques and also institutional processes. These days artificial Intelligence aids Management in decision making, assisting students in giving feedback and assist teachers in personalized learning experience and improve accessibility in the changing trends of the learning population. There are certain Artificial Intelligence Applications that can be used in Education such as Gradescope which automates grading for the exams and assignment given by the students. AI facilitates the teachers in assessing the result and give feedback to students. AI tool Kahoot helps teachers in conducting quiz and learning games from the syllabus. It helps in student engagement and knowledge retention. AI app Slido helps teachers in Interactive learning by Q&A session during lessons. Speechify app converts text to speech with natural sounding voices in over 20 languages. It supports diverse learning needs and makes all material available to all. Adaptive learning is one of the most prominent apps of AI and educational software which gives learning experiences based on student interactions. It focuses on content delivery and practice. Intelligent tutoring systems is a way for one to one tutoring engage students in tutorial dialogue across various subjects. Thus these were the new generation learning systems enhancing learning and understanding.

Challenges faced with use of Artificial Intelligence:

The Artificial Intelligence has advantages in context to feedback, assessment consistency. Artificial Intelligence face some challenges less reasonable than human evaluation, undermining their willingness their willingness to incorporate

feedback. Artificial Intelligence depends on the income group of students going to schools and then the purchase of technology. Another challenge is the availability of stable internet at students home. AI creates huge student data which may rise serious and privacy concerns. It also raises question of whether educational institutions protect student interest in their technology purchase process. It also seen that there is little improvement in student learning results. AI applications make availability of information easily which slows down the understanding, reading and gaining knowledge process.

Conclusion:

It is seen that Artificial Intelligence is changing the face of education. The tools that are used by Artificial Intelligence not only increase educational access, improve assessment process and customize learning. In future the use of technology advances educational goals rather than just technological potential. It is to be seen future that whether AI will strengthen or weaken human force that is essential for education.

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