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Executive Editor

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Dr. Anita Wankhede

Acting Principal,

SES College of Education, Jalgaon

Associate Editor

Dr. Jayashri Patil
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Dr. Anita Jave

SES College of Education, Jalgaon

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Various Approaches & Current Issues
In Education**

Executive Editor
Dr. Narendra Mule

Chief Editor
Dr. Anita Wankhede
Acting Principal,
SES College of Education, Jalgaon

Associate Editor

Dr. Jayashri Patil
Suvarna Ahire

Dr. Pratibha Patil
Dr. Anita Jave
SES College of Education, Jalgaon



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Plot. 42 Akshara Publication Gokuldham Residency
Prerna Nagar Wanjola Road Bhusawal Dist. Jalgaon [M. S.] India 425201

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Artificial Intelligence Makes a Vital Role In Teaching In NEP

Assist. Prof. Dehadray Geeta Rajaram

Dept. Of Physics

Arts, Commerce and Science College, Shevgaon.

Abstract:

The purpose of this study was to assess the impact of Artificial Intelligence (AI) on education. This study investigates the effectiveness of AI-driven educational tools, including intelligent tutoring systems, natural language processing, and machine learning algorithms. Concerns regarding data privacy, bias, and the digital divide were also highlighted. This research contributes to the understanding of merits and demerits of AI in education. AI's potential to enhance education, highlighting best practices for implementation and addressing challenges.

With the increase in studies about artificial intelligence in the educational field, many scholars in the field believe that the role of teachers and school in the education will change. In this regard, the purpose of this study is to examine what possible scenarios are there with the arrival of AI in education and what kind of implications it can reveal for future of schools. The research was designed as a phenomenological study, a qualitative research method, in which the opinions of participants from different sectors were examined. The results show that schools and teachers will have new products, benefits and also face drawbacks with the arrival of AI in education. The findings point out some suggestions for use of AI and prevention of possible problems. While participants generally seem to have positive perceptions towards AI, there are also certain drawbacks, especially highlighted by teachers and academicians, regarding the future of teaching.

Keywords: Artificial intelligence, education

Introduction:

Artificial intelligence is a field of study that focuses on developing machines that can perform tasks that typically require human intelligence. AI systems can analyze data, identify patterns, make decisions, and perform tasks that typically require human intelligence. AI can learn from experience, Understand natural language, Recognize patterns, Solve problems, and Make decisions. Students can enhance their learning skills using AI tools. Due to AI and internet there is a lot of development occurs in various aspects. It is very hard to predict what's likely to happen in the next 10 years just by looking at the past 10 years because the rate of change is tremendous. It doesn't mean that we become suddenly more intelligent, the researches are based on millions of researches made in history and that's why the progress is exponential.

The purpose of this study is to examine what the use of artificial intelligence in education means and what kind of implication it can reveal for the future of education, according to the opinions of the participants from different sectors.

Use of Artificial Intelligence in NEP:

The mention of artificial intelligence brings to mind a supercomputer, a computer with immense processing capabilities, including adaptive behavior, such as inclusion of sensors, and other capabilities, that enable it to have human-like cognition and functional abilities, and indeed, which improve the supercomputers interaction with human beings. Indeed, different motion pictures have been made to showcase the abilities of AI, such as in smart buildings, such as the ability to manage air quality in a building, temperatures, and or playing music depending on the sensed mood of the occupants of the space. Within the education sector, there has been increased application of artificial intelligence, going over and above the conventional understanding of AI as a supercomputer to include embedded computer systems.

Students can use artificial intelligence for personalized learning. AI adjusts content to individual learning styles and needs. It provides step-by-step guidance and adaptive difficulty adjustment. Students can also learn using virtual classrooms with the help of AI.

The integration of Artificial Intelligence (AI) in education has transformed the learning landscape, offering personalized, efficient, and adaptive experiences for students. AI-powered systems demonstrated particular benefits for students with learning difficulties and those requiring additional support. Using these platforms, instructors have been able to perform different administrative functions, such as reviewing and grading students' assignments more effectively and efficiently, and achieve higher quality in their teaching activities.

Student-Teacher and Technology:

AI can help teachers empower students and themselves by accelerating learning and providing access to a wider range of educational resources. AI can help teachers create custom learning materials, such as quizzes, flashcards, and lessons, based on a student's strengths and weaknesses. This can help students focus on the topics they need the most help with, and maximize their learning efficiency. AI can also help teachers tailor content to students' interests, abilities, and challenges. AI-powered educational technology can provide individualized support for learners through tools such as educational games, adaptive learning platforms, catboats, and intelligent tutoring systems. Teachers can use Virtual reality (VR) and augmented reality (AR) technologies, for impactful teaching students are more likely to pay attention and retain information when they are actively engaged with the topic. These technologies have the potential to revolutionize education by making learning more immersive and interactive. Some students are visual learners, others are auditory learners, and others are kinesthetic learners. Traditional classrooms often favor one type of learning over another. However, with VR and AR, many learners can benefit from the technology. In traditional classrooms, students often work independently on assignments. However, with VR and AR, students can work together on virtual projects or compete against each other in educational games. AR and VR technologies provide students with a more realistic and tangible experience of the concepts they are studying, which can deepen their understanding and lead to better retention of information. For example, history students can use VR to travel back in time and explore ancient civilizations, while medical students can use AR to examine the human body in greater detail.

Merits of Artificial Intelligence in NEP:

- The first major advantage of implementing AI is that it decreases human error. Using AI to complete tasks, particularly repetitive ones, can prevent human error from tainting an otherwise perfectly useful product or service.
- Artificial intelligence has the potential to create immersive learning experiences that engage students in ways traditional methods cannot.
- Technologies such as virtual reality (VR) and augmented reality (AR) powered by AI can simulate real-world scenarios and complex concepts, making learning more interactive and enjoyable. For example, Physics students can use VR tools to understand concepts like reflection, refraction etc.
- VR also provide accessibility for disable students.
- Helping individual in learning with their own speed.
- Practical solutions to chronic problems.
- No more paperwork in schools.
- Providing ease of work.
- Helping the right decisions with fast data analysis.
- Planning teaching according to student capacity and speed.
- Using effective learning methods using a learning analysis.
- Ability to train in smaller groups with effective planning.
- More effective individual learning process.

- Prevention of waste of time.
- Increase in education quality.

Demerits of Artificial Intelligence in NEP:

- One of the primary disadvantages of AI in education is the issue of data privacy. AI systems often require vast amounts of personal data to function effectively, including students' academic records, personal data and even biometric information. This extensive data collection raises significant concerns about how this information is stored, used and protected.
- As educational institutions increasingly rely on AI tools for teaching and administrative tasks, there is a risk of becoming overly dependent on these technologies. This dependence can lead to significant disruptions in the event of technical failures or cyber-attacks.
- Traditional education relies heavily on human interaction, with teachers providing not only academic instruction but also mentorship and emotional support. AI systems, while efficient, cannot replicate the empathy, understanding and personal connection that human educator offer.
- As AI system take on more roles traditionally filled by educators, there is a fear that teachers may become obsolete.

Conclusion:

"AI is Store of knowledge, Not a Creator of knowledge."

Knowledge is continuous process to growth of education and creates the new approach generated for students and new ideas expand for education system. AI in education industry is overcoming enormous challenges by facing a completely new era of customized learning, advanced support systems, and easily accessible resources. AI is revolutionizing teaching and learning by providing a wide range of innovative solutions. AI has profoundly impacted various sectors, from education to healthcare. Its ability to analyze vast amount of data and make predictions has led to increased efficiency and new opportunities. Artificial intelligence in NEP is not a comprehensive solution; it should be used only in the areas of need. 'We need to be careful in taking steps. Academic studies can be done. It is important to run pilot applications. Artificial intelligence should not be at the center of educational activities; it should act as a helping element, play a supporting role for teachers and the human factor. In order to eliminate risks, AI systems should be fully linked to human control.' Since it is humanity that is most affected by technology, it is important that this entire process is carried out on a legal basis so as not to harm anyone.

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Certificate

This is to certify that ~~Dr.~~ *Prof./Mr./Miss* **Dehadray Greta Rajaram**

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entitled **Artificial Intelligence Makes a Vital Role in Teaching in**

NEP

Dr. Anita Wankhede
Convenor & Principal

Dr. Jayashri Patil
Co-ordinator

Dr. Pratibha Patil
IQAC Co-ordinator