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## Artificial Intelligence in Multidisciplinary Studies and Education AI and the Future Human Identity

Dr. Dheeraj Verma (Soni)

Principal

Pragati T.T. College Kota, Rajasthan

Email-sonid711@gmail.com

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### Abstract

*In today's world everybody knows every time new. New things are totally depending on our curiosity. AI solve our problems but some time we are in the condition of doubt it is a true or false. We think that the future of AI is bright and graceful. Humans and AI systems collaborate, has potential for addressing challenging challenges and achieving breakthroughs across multiple areas. In the current situation of the studies want new innovative ideas for project work. AI can improve the quality of teacher education, enhance teachers' skills, and facilitate personalized learning. Artificial intelligence is becoming an integral part of smart ICT based apps targeted for digital learning in India. Artificial intelligence will fundamentally reshape human behavior, cognition and relationships within the next decade, raising important questions about impact of AI on what it feels to be human. AI-powered technologies can also help solve complex problems and make our daily lives easier and more convenient. AI changes the power of thinking in every sector of life. it's drastic change in the education sector as well as other parts of life. AI adapts learning experience to individual students need. India has been at the forefront of the adoption of AI in education but we need to identify the challenges and opportunities it presents. The Future of AI is bright but we think our own conscience that result will be tremendous.*

**Key words :** AI Position in Student's classroom, AI in Teacher Education, Future of AI etc.

### Introduction

**“Artificial Intelligence is not a substitute for human intelligence, it is a tool to amplify human creativity and ingenuity”**

Artificial Intelligence (AI) has occupied an important place in every human's life but mostly in student's life for decades. Artificial Intelligence presents the first full examination of AI. Designed to provide an understanding of the foundations of artificial intelligence, it examines the central computational techniques employed by AI, including knowledge representation, search, reasoning, and learning, as well as the principal application domains of expert systems, natural language, vision, robotics, software agents and cognitive modeling. Many of the major philosophical and ethical issues of AI are also introduced. One of the greatest technological leaps in the history of human endeavor. AI as **“unprecedented”** and **“has the potential to contribute in a positive way to the future of humanity”** before dedicating World Peace Day 2023 to the use of AI.

The applications of Artificial Intelligence lie all around us; in our homes, schools and offices, in our cinemas, in art galleries and - not least - on the Internet. The results of Artificial Intelligence have been invaluable to biologists, psychologists, and linguists in helping to

understand the processes of memory, learning, and language from a fresh angle. As a concept, Artificial Intelligence has filled and sharpened the philosophical debates concerning the nature of the mind, intelligence, and the uniqueness of human beings.

### History & Present Position of AI in the sector of Education-

The history of AI in education began in 1965 when Stanford University used the first AI program, the PLATO (Programmed Logic for Automated Teaching Operations) computer program. The “PLATO computer program” taught students the basic concepts of mathematics and science. The most immediate impact of AI in teaching has been in streamlining administrative tasks. AI tools for Indian teachers which automate repetitive tasks like grading assignments, attendance tracking and maintaining student records, allow them more time to engage with students and improve lesson delivery.

In the modern time of education AI is used in education in numerous ways that enhance different aspects of teaching and learning. For example, adaptive learning platforms customize content for individual students. AI also automates grading and scheduling to free up teachers' time, and interactive tools make learning more engaging.

## AI & NEP in the Education Sector

AI has the ability to advance teaching and learning, supporting the education sector as it develops for the good of both students and teachers. In **July 2020**, the National Education Policy 2020 was unveiled, and it contained promising elements for digital education. India's **National Education Policy (NEP) 2020** is a revolutionary change in the Indian education system. It has created a transformative turn in educational policy. The drafted policies are the framework for futuristic education in India. Broadly speaking, it is a massive effort to revamp the existing education system in India. The **NEP 2020** has taken very serious note of the role of technology in the field of education and its applications such as e-learning, online resources and the use of digital tools. Moreover, the first education policy of the 21st century recognizes the wider role of AI. One of the objectives of the NEP is to enhance the learning experience by integrating technology and AI.

Artificial Intelligence (AI) is about creating machines and programs that can do tasks that usually need human thinking, like learning, recognizing patterns, making decisions and solving problems.

AI can personalize learning experiences, catering to students' needs and capabilities. Through adaptive learning platforms, AI can analyze students' progress, identify areas of strength and weakness, and offer tailored educational content. The approach aligns with the NEP's emphasis on ensuring that every student receives an education that is suitable for their unique learning style. Both the professional development of teachers and multi-discipline education are an integral part of the NEP. The role of AI in facilitating education is very important while providing a holistic knowledge of insights and content from different fields

AI in the NEP-2020 reflects a paradigm move towards adaptive technology to create a more inclusive, skill-oriented, and efficient education system in India. As the execution of AI in education continues to evolve, it has all the potential to significantly contribute to achieving the objectives set by the NEP and most importantly it will prepare the major stakeholders in education system for a better future. AI has powerful tools that make previously inaccessible material available to students with special needs.

### AI Position in Student's classroom

The government of India's education vision for **Viksit Bharat 2047** is to create an inclusive, high-quality education system for skill development and life abilities. The advent of **AI**, however, has changed things. It is helping the system move away from standardized to personalized, making it relevant and effective for the present. AI tools for Indian teachers which automate repetitive tasks like grading assignments, attendance tracking and maintaining student records, allow them more time to engage with students and improve lesson delivery. AI for multilingual education is helping students bridge learning gaps from language difficulties. It's also being used to create more accessible and inclusive learning environments for diverse student needs.

AI in education sector enables educators to access a wealth of up-to-date and tailored resources for their students. One significant aspect of AI-powered content creation is its ability to adapt content according to individual student needs and learning styles. India Ranks

1st in Global **AI Skill Penetration**: According to the Stanford AI Index 2024, India ranks first globally in AI skill penetration with a score of 2.8, ahead of the US (2.2) and Germany (1.9). AI talent concentration in India has grown by 263% since 2016, positioning the country as a major AI hub.

### AI in Teacher Education-

We all know the teacher educator is the best part of teaching profession. Teachers can leverage AI-driven educational games and simulations to make lessons more engaging and immersive. Furthermore, AI assists in creating customized learning materials, tailoring content to diverse learning styles. Teachers can use AI to help with things like planning lessons, creating resources, marking work, giving feedback and handling administrative tasks. Artificial intelligence is poised to fundamentally change the job of teaching. AI-powered tools can save hours off the amount of time teachers spend grading, lesson-planning and creating materials. AI can also enrich the lessons they deliver in the classroom and help them meet the varied needs of all students. Modern education demands teacher updated his knowledge traditional knowledge is lagging far behind. Without updating they can't do any effective work in teacher education program.

AI offers students instantaneous and detailed feedback on their work, helping them to see their strengths and weaknesses. AI-powered tools can analyze student data to identify learning gaps and tailor content accordingly, while also assisting with tasks like grading, scheduling, and record-keeping.

AI can be a valuable tool in education, it cannot replicate the essential human qualities that teachers bring to the classroom, such as fostering social and emotional development, building communities, and providing personalized attention. AI can assist with administrative tasks and provide data-driven insights, but teachers remain crucial for the overall growth and development of students.

Teachers do more than just teach—they inspire, guide, and influence students' lives in meaningful ways. They are role models, helping shape students' values, attitudes, and behaviors. The human touch, like understanding a student's emotions and adapting teaching methods on the spot, is something AI can't do.

### Future of AI

Artificial intelligence (AI) is poised to be a significant force in India's future, with the potential to revolutionize various sectors and contribute to economic growth. India's vast talent pool, rapid AI adoption, and substantial data wealth position it as a leader in AI innovation, development, and deployment.

AI is projected to be deeply integrated into all aspects of life, enhancing human capabilities and tackling global challenges, but its success will depend on ethical development and responsible regulation. AI will likely personalize experiences, automate complex tasks, and revolutionize fields like healthcare, education, and transportation.

It is becoming easier for humans and machines to communicate, enabling AI users to accomplish more with greater proficiency. AI is projected to the global economy through continued exploration and optimization.

Between now and 2034, AI will become a fixture in many aspects of our personal and business lives. Generative AI models such as GPT-4 have shown immense promise in the short time they've been available for public consumption, but their limitations have also become well known. As a result, the future of AI is being defined by a shift toward both open source large-scale models for experimentation and the development of smaller, more efficient models to spur ease of use and facilitate a lower cost.

AI will become even more integrated into personal and professional spheres, driven by user-friendly platforms that allow non experts to use AI for business, individual tasks, research and creative projects. These platforms, similar to today's website builders, will enable entrepreneurs, educators and small businesses to develop custom AI solutions without requiring deep technical expertise.

Artificial Intelligence (AI) is evolving rapidly and should have a significant impact on society in the near future. The future of AI is likely to be shaped by a combination of technological advancements, increased investment, and changing societal attitudes towards the technology as well as the education sector. The curiosity to know extra or difficult aspects of education related just like research work, review literature, statistics AI is very help for researcher as well as guides.

The National Council for Teacher Education (NCTE) has defined Teacher Education as a program of education, research & training of persons to teach students of pre-primary to higher education. The ultimate aim of teacher education is to develop skills and competencies in the prospective teachers so that it enables them to meet the requirements of teaching profession and prepare them to meet future needs.

### AI and the Future Human Identity

We are increasingly seeing philosophers, anthropologists, psychologists and sociologist weighing in on what humanity's relationship with AI might and should look like. While those in the humanities have long sought to understand our relationship with technology, with AI it seems to have taken on a whole new level of energetic debate and discussion. This is good. AI tools are, whether society likes it or not, being embedded in just about every type of digital device, from consumer electronics like laptops and phones to industrial systems in manufacturing, our cars, planes and ships. The future of AI is full of potential to make breakthrough advances that benefits humanity. Collaborative intelligence, in which humans and AI systems collaborate, has potential for addressing challenging challenges and achieving breakthroughs across multiple areas.

AI-powered technologies such as natural language processing, image and audio recognition, and computer vision have revolutionized the way we interact with and consume media. With AI, we are able to process and analyze vast amounts of data quickly, making it easier to find and access the information we need.

### Major Disadvantages of AI

- High Costs and Implementation Challenges.
- Lack of Creativity and Emotion.
- Job Displacement and Reduced Human Involvement.
- Ethical and Privacy Concerns.

- Bias in AI Algorithms.
- Decreased Human Skill Development.
- Lack of Accountability and Transparency.
- Security Risks and Misuse of AI.

### Conclusion

AI's impact on society is complex, with both positive and negative aspects. While it offers potential benefits like improved healthcare, increased efficiency, and personalized services, it also poses risks such as job displacement, biased decision-making, and privacy violations. The overall impact depends on how AI is developed, deployed, and regulated, emphasizing the need for ethical considerations and responsible use. Artificial Intelligence is both a boon and a bane, depending on how it is developed and deployed. While AI offers tremendous potential to improve efficiency, productivity and problem solving, it also raises significant challenges in terms of job displacement, ethical issues, and costs. So We think first than use.

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