



Original Article

AI and Education: Opportunities and Risks

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Manuscript ID:

JRD -2025-171038

ISSN: 2230-9578

Volume 17

Issue 10(II)

Pp. 164-166

October 2025

Submitted: 15 Oct. 2025

Revised: 25 Oct. 2025

Accepted: 27 Oct. 2025

Published: 31 Oct. 2025

Abstract :

As education evolves, the integration of artificial intelligence continues to play a vital role for students by harnessing the power of artificial intelligence, educators can tailor educational content to suit the distinct learning styles and requirements of individual students. Artificial Intelligence in education opens doorways for innovation and creativity in curriculum layout instructional delivery. The ongoing evolution of artificial intelligence in education presents boundless opportunities to enhance the educational landscape and elevate the learning experiences of students across diverse academic settings.

Key Words: Artificial intelligence, opportunities, risks, Niti Aayog, Ethnology, tool Digital skill Unesco.

Introduction :

Artificial Intelligence adaptive nature ensures that it can dynamically adjust the content and pace of learning materials enabling students to engage with educational resources in a manner that aligns with their unique preferences. Furthermore, Artificial Intelligence's role as a virtual tutor continues to revolutionize the landscape of personalized learning.

Meaning and Definition of Artificial Intelligence :

Artificial Intelligence is the ability of Machines to perform tasks that normally require human intelligence like learning making decisions and solving problems.

According to Niti Aayog :

AI refers to the ability of Machines to perform cognitive tasks like thinking, perceiving, learning, problem solving and decision making.

According to Johan MC Carthy :

Artificial Intelligence a term coined by emeritus Stanford professor was defined by him as the science and engineering of making Intelligence Machines. Meaning and Definition of Education : Education is not an acronym but a process of acquiring knowledge, skill moral and values that develops an individual's mind and character to be a civilized and contributing member of society.

Etymological Roots :

Educare – From Latin meaning “to bring up” or “to nourish”

Educere – From Latin meaning to “draw out” or to “lead out” signifying the development of inherent potential.

According to Unesco, Education is the process by which societies deliberately transmit accumulated information knowledge, attitudes, values, skill and behaviors across generations involving communication designed to bring about learning.

According to Gandhiji said :

By education, I mean all around drawing out of the best in child and Man – body mind spirit literally is not the end of education, not even the beginning.

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How to cite this article:

Govind Motiram, (2025), AI and Education : Opportunities and Risks, Journal of Research & Development, 17(10(II)), 164-166.



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Rational of the study :

The study aims to explore the various areas in which Artificial Intelligence will enable of the implementation a personalized learning approach and to design the mode of delivery of knowledge to match the diverse needs of the learners however, the study does not cover the various tools, software, coding and machine learning functions that are required to implement the personalized learning approach to suit the needs of diverse class of learners.

Objectives of the study :

1. To study the role of Artificial Intelligence in developing a personalized approach to cater to the diverse needs of the students.
2. To study the opportunities and risks of integrating Artificial Intelligence in education.

Methodology :

The study aims to explore the various areas in which Artificial Intelligence will cater to various diverse needs of the students and provide a base for implementing the personalized learning approach. Relevant research articles and reports were discovered for this review using the databases of Google scholar, Research Gate and other research Journals etc.

Opportunities of Artificial Intelligence in Education :

a) Digital Skill in Education :

Social well being is component of sustainable development is reliant on education. Artificial Intelligence has developed to disseminate information and is a major impetus behind innovations in education.

b) Influence of Artificial Intelligence on students performance and Assessment :

Artificial Intelligence can assist in bridging the gaps in learning and teaching needs implications of Artificial Intelligence on Education include personalized learning.

c) Access to Quality Education :

Artificial Intelligence can provide access to quality education for students in remote or underserved areas allowing them to benefit from education resources and opportunities that may not have otherwise had access to (liuet a1, 2001)

d) Enhanced Collaboration and Communication :

Artificial intelligence can facilitate collaborative learning by providing tools and platforms for students to work together on projects and share ideas.

e) Worldwide knowledge :

Students may now work with colleagues from other nations and cultures while taking part in online course etc.

f) Improved classroom management :

Artificial Intelligence can help manage routine administrative tasks, such as attendance tracking and scheduling allowing teachers to focus more on instruction and student support.

g) Efficient Assessment and Grading :

Artificial Intelligence can automatic the process of grading assignments and assessments, saving teachers valuable time and providing more accurate and consistent feedback to students.

h) Student behavior Monitoring :

Artificial Intelligence effect on pupil performance is obvious through its capability to offer real – time tracking of students studying sports.

i) Ethical Considerations of Implementing Artificial Intelligence in Education :

A midst the improvements and ability of Artificial Intelligence in training, it is important to deal with the ethical considerations related to its implementation.

Risks of Artificial Intelligence in Education

a) Security Risks :

The large amount of students data collected are vulnerable to hacking and other cyber threats if not managed with strict security measures.

b) High Implementation Costs :

The initial and ongoing costs of AI tools and infrastructure can be prohibitive for many schools especially in underprivileged areas.



c) Accessibility Gaps :

High costs and poor internet access in certain regions can create or widen the “Digital Divide” limiting access to AI – Powered tools for all students

Reduced Human Interaction :

Over reliance on AI can decrease meaningful teacher – student and student – peer interaction, which is essential for developing social and emotional skill.

Dependence on Technology :

Excessive reliance on AI tools can hinder the development of essential critical thinking and Problem solving skill as students may become accustomed to technology driven solutions.

d) Ethical Dilemma :

The increasing role of AI in education raises ethical questions about the long term impact on Teaching jobs, the devaluation of human expertise and the overall future of traditional learning methods.

e) Need for Digital literacy :

Students need to develop strong digital literacy skills to effectively and responsibly use AI tools.

f) Job Displacement :

Automation through AI is expected to replace human workers in various sector, leading to job losses and requiring workers to adapt by acquiring new skill for emerging roles.

❖ Analysis of Data Analysis :

Overall Impact :

1) Increased Efficiency :

AI Streamlines educational processes making them more efficient for both students and teachers.

2) Greater Equality :

By Providing personalized support and accessibility tools. AI helps bridge opportunity gaps and create a more equitable educational system.

3) Future – Ready skills :

AI integration in education helps develop critical thinking Problem – solving and creativity skill essential for the future work force.

Conclusion :

Artificial Intelligence Plays important role in education and ability of Machines to perform in AI and Plays in education as well as, thus AI and education Parallely perform.

Summary, the goal of AI is to provide software that can reason on “Input” and Explain on “Output”.

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