

Title-Emerging Trends In Artificial Intelligence

Author's Name-Divya Rajesh Samtani

Designation-Assistant Teacher

School -Swami Dev Prakash School

**School Address-Site No 19 & 127, Near Radheshyam Gaushala,
Ulhasnagar-5, Thane.**

Email id-divyasamtani03@gmail.com

Topic : A Study on the Usage of Artificial Intelligence Tools and Techniques for Learning among Future Generations

ABSTRACT

Artificial Intelligence (AI) has become an important part of modern education, especially for students who are growing up in a digital environment. This study focuses on understanding how AI tools and techniques are influencing the learning habits of future generations. Based on secondary data such as books, reports, and online sources, the study highlights how AI supports personalized learning, improves access to information, and enhances student engagement. It also discusses the challenges related to overdependence and ethical use. The study concludes that AI, when used properly, can play a powerful role in improving learning outcomes for students.

INTRODUCTION

In recent years, the education system has undergone significant changes due to technological advancements. One of the most important developments is the use of Artificial Intelligence in learning. Students today are no longer limited to traditional classroom methods. They are using AI tools to understand concepts, complete assignments, and explore new ideas.

For future generations, AI is not just a tool but a part of their learning environment. It helps them learn faster, think differently, and become more independent. This study aims to understand how AI tools and techniques are being used by students and how they are shaping the future of learning.

LITERATURE REVIEW

Various researchers and organizations have studied the role of AI in education.

Reports by UNESCO highlight that AI can make education more inclusive and accessible by supporting personalized learning. According to Wayne Holmes, AI has the potential to improve student engagement and provide better learning experiences.

Studies also show that AI tools help students learn at their own pace and provide instant feedback. However, researchers have also pointed out concerns such as lack of critical thinking and overdependence on technology.

Overall, the literature suggests that AI has both positive impacts and challenges in the field of education.

RESEARCH GAP

Although many studies have discussed AI in education, most of them focus on higher education or technical aspects of AI. There is limited focus on how school-level students, especially future generations, are actually using AI tools in their daily learning.

This study attempts to bridge this gap by focusing on the practical use of AI tools and techniques among students and their impact on learning behavior.

PROBLEM STATEMENT

With the increasing use of Artificial Intelligence in education, students are becoming more dependent on AI tools for learning. While these tools provide quick solutions and support, there is a concern that students may rely too much on them and may not develop critical thinking skills.

Therefore, it is important to study how AI tools are being used by students and whether they are contributing positively to the learning process.

OBJECTIVES OF THE STUDY

To study the level of awareness about AI tools and techniques among students

To understand the usage of AI tools and techniques in the learning process

To analyze the impact of AI tools on students' learning habits

HYPOTHESIS

H0 (Null Hypothesis): AI tools and techniques do not have a significant impact on students' learning process.

H1 (Alternative Hypothesis): AI tools and techniques have a significant impact on students' learning process.

RESEARCH METHODOLOGY

This study is based on secondary data. Information has been collected from:

Books

Research papers

Educational reports

Trusted online sources

The study uses a descriptive research method, focusing on analyzing existing information related to AI in education. No primary data has been collected.

SCOPE OF THE STUDY

The study focuses on:

Students as future generations

Use of AI tools and techniques in learning

Educational impact of AI

It is limited to understanding general trends and does not focus on any specific region or institution.

LIMITATIONS OF THE STUDY

The study is based only on secondary data

It does not include direct interaction with students

Findings may not reflect real-time classroom situations

Limited availability of school-level data on AI usage

FINDINGS AND SUGGESTIONS

Findings

The study shows that AI tools are increasingly becoming part of students' learning processes. Students use AI for understanding concepts, completing assignments, and improving their skills. AI makes learning more flexible and engaging. However, it also creates a risk of overdependence, where students may rely on AI instead of thinking independently.

Suggestions

Teachers should guide students on proper and ethical use of AI

Schools should include digital literacy in the curriculum

Students should be encouraged to use AI as a support tool, not a replacement

Awareness programs should be conducted to explain both benefits and risks of AI

CONCLUSION

Artificial Intelligence is playing a major role in shaping the learning habits of future generations. It has made education more accessible, personalized, and interactive. Students are benefiting from AI tools, but there is also a need to ensure that these tools are used wisely. A balanced approach is necessary where AI supports learning without reducing students' ability to think critically. If used properly, AI can become a valuable partner in the educational journey of students.

REFERENCES

UNESCO (2021). AI in Education Report

Wayne Holmes (2019). Artificial Intelligence in Education

Research articles and educational websites on AI in learning