

IMPACT OF AI: ARTIFICIAL INTELLIGENCE OVER STUDENT COMMUNITY

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Abstract:

The modern era, with new innovations and research, has introduced Artificial Intelligence. AI will influence the way education is offered and the ways available for students to learn. The impact of AI will be very useful to the student community. At the same time, it may make young minds more dependent not only on technology but also on ideas and thoughts.

New things getting introduced in technology has both positive and negative effects. AI is also not an exception to this fact.

Awareness sessions should be conducted to avoid negative effects and bring about more positive effects. Modern technology should be used for better efficiency and improvements, but not at the cost of physical and psychological health.

There are challenges ahead in terms of data privacy and security. Precautionary measures must be taken to avoid these negative influences and overcome the challenges.

Research methodology: Primary and secondary data

Keywords: *Personalised learning, 24/7 support system, enhanced efficiency, Skill development, Reduced human interaction, increased screen time, digital fatigue*

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Introduction :

We are all witnessing the rapid growth of technology in the 21st century. Innovative ideas are continually being added to the present versions of the technology. Intellectuals with creativity and curiosity continue to search for techniques that make operations easier and user-friendly, improving the quality and results of work better and effective.

Digitalization has crept into almost all sections, offering many more benefits than the traditional methods applied so far. Time, money, and energy-saving techniques are welcomed from all corners of the commercial world.

Digitalization has spread rapidly in India more from the 2019-20 epidemic period. Lockdown and absence of socialization made it mandatory to change the platform from regular face-to-face practices to virtual platforms from a distance. The Education system could not remain behind in continuing its education purpose.

Students shifted from physical classrooms to online digital classrooms. The notes were shared online. The assignments were submitted online. Attendance was taken from a distance. Exams were conducted online. It was difficult to catch up with this new sudden change. However, new generations have adapted to this change positively, understanding the utility of the digital platform.

Yesterday's technology becomes older with the emergence of new technology innovated with constant research and patience. Artificial intelligence (AI) is a new technology product with higher efficiency, which reduces the human workload.

Objective of the Study:

- To know the approach of student community towards AI
- To know the positive impact of AI over students
- To know the limitations, challenges, and disadvantages of AI for the student community.

- To know how students, view towards AI as new opportunity to upgrade skills to get better jobs.

Method of study:

Primary Data: Survey conducted using the questionnaire method from the undergraduate and graduate student community.

Secondary Data: Data gathered from various available sources.

Limitation of Study:

The sample population consisted of 84 respondents, representing the entire student community. Therefore, the analysis was based on the responses received from this sample population.

Literature Review:

- **The Impact of Artificial Intelligence (AI) on Students' Academic Development**

by Aniella Mihaela Vieriu, Gabriel Petrea
(Published: 11 March 2025)

AI enables personalized learning by adapting educational content to meet the unique needs of individual students. Studies have shown that students in personalized learning environments exhibit improved self-efficacy and a more positive attitude toward their education.

Critical thinking skills are essential for shaping students' overall learning experience. Educators often rely on questioning techniques, collaborative activities, and assignments to enhance students' abilities to evaluate information and develop independent perspectives. However, the rapid information processing and insightful responses provided by AI challenge traditional learning methods' efficacy. These findings align with previous research showing that AI can adapt educational content to students' individual needs, optimizing study time and enhancing academic performance.

- <https://doi.org/10.1080/2331186X.2025.2571691>
- **A holistic exploration of student attitudes toward AI use in higher education: an international comparison**

David Vaněček, Yilmaz Ilker Yorulmaz , Dana Dobrovská

(Article: 2571691 Published online: 24 Oct 2025)

AI's remarkable capacity to conduct complex tasks in education has emerged as a lively debate among educators, whose perspectives on the future of teaching and learning differ widely. While some educators regard AI as the future of learning, others perceive it as a threat that could ultimately disrupt or even replace traditional educational activities. Although this debate implicitly highlights uncertainties surrounding AI's impact on education discussions suggest that it is utilized across many fields of study to support teaching, learning, and assessment. However, it also raises concerns regarding pedagogy and ethics. This study engages with this debate from the perspective of students by revealing their attitudes toward the use of AI in university studies and the associated perceived benefits, risks, and ethical implications.

- **Beyond the Screen: Exploring Student Perceptions of AI in Education**

Pooja. V , Amrutha Basavaraju, Sampraja Bandi, Mallika Meti, Varsha. S. C.

Published: 2025-07-02

<https://journaljsrr.com/index.php/JSRR/article/view/3233>

This study was conducted to provide a comprehensive understanding of how students evaluate AI technologies in education, considering not only their perceived usefulness and ease of use but also the critical factors of trust, ethical concerns, and overall satisfaction, which collectively shape

their acceptance and engagement with AI-driven learning tools.

Discussion and Analysis:

The student community has young minds that grasp new trends, techniques, and innovative ideas quickly. They have a creative mind to apply new technology while studying. The young generation is always eager to adapt to new ways to make things easier and quicker, saving time and energy.

Artificial intelligence have a great positive impact on the student community, offering various benefits and facilities.

- **Personalized Learning :**

Students learn different courses. They also have elective subjects along with common subjects to study. According to the needs and requirements of the students, the material is available with other helping tools.

- **24/7 Learning possible :**

Students can learn lessons on any day of the week, with no time barrier. As per the time availability with students, learning becomes easier. Students pursuing different courses simultaneously can find AI a strong supporter in completing assignments and submitting projects well within time with better analysis and presentation.

- **Possible improvements with early**

Assessment: Students can learn from their mistakes and improve their performance on receiving feedback.

- **Increased Accessibility and Inclusivity:** Students with special needs can have tools such as text-to-speech, speech-to-text, and language translation, which make learning materials accessible to those with disabilities or language barriers.

- **Efficient Content Creation:** AI assists in summarizing, writing, and brainstorming, allowing students to focus on critical thinking rather than mundane tasks.

- **Get updated with current trends for the future:** Artificial intelligence helps with the latest updated trends, knowledge, innovative ideas, and latest technology to enable the student community to face the challenges ahead in their career path, improving efficiency and effectiveness in their performance.
- **Opportunity to add to skills:** AI has the scope to create jobs related to this new emerging technology. Student community with a vision to upskill themselves to get recruited in the area where AI is applied.

Everything has two sides. AI also has a few disadvantages.

- **Increased dependency:** Overreliance on AI for writing, coding, or problem-solving bypasses essential learning processes, leading to weaker critical thinking and reduced creativity.
- **Academic Dishonesty and Laziness:** Easy access to AI chatbots facilitates cheating and plagiarism, allowing students to complete assignments with minimal effort, which hinders their long-term academic growth.
- **Reduced Social interactions:** Increased screen time and reliance on AI tools can lead to decreased face-to-face interaction, reducing essential social skill development, fostering loneliness, and reducing empathy.
- **Academic Misinformation:** AI tools can provide inaccurate information, which can hinder learning and lead to the spread of misinformation.
- **Loss of Teacher-Student Connection:** As AI becomes a primary tutor or feedback provider, meaningful personal interaction between students and teachers is reduced.
- **Data Privacy and Security Risks:** The collection of large amounts of student data for training AI models poses significant privacy and security risks.
- **Bias and Inequality:** AI algorithms trained on biased datasets may perpetuate existing inequities in

education, affecting fairness and access to opportunities.

These tools do not replace educators but empower students to become more efficient, independent, and engaged learners.

As everything has positive and negative sides, artificial intelligence is not an exception. Although AI will pose challenges in reducing personal creativity, critical thinking, and over-dependency on ready material, the advantages and benefits that students will gain cannot be ignored. Therefore, it is important to take advantage of the new innovative AI while keeping watch for its misuse.

Key AI Applications for Students with Disabilities:

- **Visual Impairment:** Tools such as Microsoft Seeing AI and OrCam use cameras to read text aloud, recognize faces, and identify objects.
- **Hearing Impairment:** Live Transcribe and Otter.ai provide real-time, AI-powered captioning in classrooms.
- **Learning and Cognitive Disabilities:** Generative AI simplifies complex texts into easy-to-read, concise summaries, supporting students with dyslexia.
- **Speech Impairment:** Voiceitt and Parrotron adapt to non-standard speech, helping users communicate.
- **Motor/Physical Impairments:** Project Activate enables communication via eye-tracking and facial gestures.

Primary data Analysis :

Questionnaire and responses received

Respondents : Total 84 Respondents

(Students pursuing Graduation and Post graduation from different courses)

Under graduates	Graduates pursuing post graduation
49 (58%)	35 (42%)

- **Autism and Social-Emotional Support:** Humanoid robots (e.g., Milo) teach social skills, emotional recognition, and engagement.

AI Tools in use for physically challenged

- **AccessNow**
share information about accessible transportation options, ramps, elevators, and other amenities, thereby making public spaces more inclusive.
- **Alt Text Creator / Image Describer for VI Users**
It aims to enhance web accessibility for visually impaired users.
Article Friend
Article Friend is a resource that utilizes ChatGPT
- **Ava**
Empowering deaf & hard-of-hearing people and inclusive organizations with the best live captioning solution for any situation.
- **Be My Eyes Virtual Volunteer**
It is powered by OpenAI's new GPT-4 language model, which contains a dynamic new image-to-text generator. Users can send images via the app to an AI-powered Virtual Volunteer, which answers any question about that image and provides instantaneous visual assistance for a wide variety of tasks.
There are many more such devices getting developed and few already working for physically challenged persons.

1. Are you aware about the new technology of Artificial Intelligence (AI) trending currently ?

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	9%	81%	9%

2. As a student are you known the benefits of AI in pursuing studies ?

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	2%	97%	1%

3. Study is going to get much more easier due to application of AI.

Strongly Disagree	Disagree	Agree	Strongly Agree
8%	9%	83%	0%

4. Is AI going to make studies more interesting ?

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	8%	91%	1%

5. AI is going to help students to understand difficult concepts in easier way.

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	9%	81%	9%

6. AI is going to work positively upgrading knowledge level with updated current trends.

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	1%	98%	0%

7. Will AI be helpful to increase passing possibilities improving overall results?

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	9%	81%	9%

8. AI is helpful in skill development resulting in more employability possibilities.

Strongly Disagree	Disagree	Agree	Strongly Agree
1%	3%	96%	0%

9. AI is going to make students more dependent over technology based sites to get answers and solutions instead of going through references from actual books.

Disagree	Agree	Neutral
8%	9%	9%

10. AI is going to increase screen time for students if applied regularly in education.

Disagree	Agree	Neutral
1%	7%	7%

11. AI is going to impact employment opportunities adversely.

Disagree	Agree	Neutral
5%	5%	5%

12. AI is going to create more employment opportunities for techno savvy candidates.

Disagree	Agree	Neutral
7%	7%	7%

13. AI is going to create more challenges for new learners and new job seekers.

Disagree	Agree	Neutral
3%	9%	8%

14. The new opportunities getting created in Recruitment market due to AI will be more open to Graduates/Masters in Urban and city than from Rural areas.

Disagree	Agree	Neutral
4%	7%	9%

15. There will be more aspirants from student community for admissions learning AI.

Disagree	Agree	Neutral
6%	6%	6%

Findings and Conclusion:

- It will take time to completely accept and understand use of AI for studies.
- Student community is more adaptable to new technology.
- New generation prefer user friendly techniques while pursuing studies.
- AI is a supportive system for student to learn with time availability.
- Students can upskill and get ready to get jobs with new emerging technology.
- For Students with disability AI is a boon to face the challenges in learning.
- AI makes available flexible time to learn by students at distance.
- Manual load will get reduced with more dependency on technology.

- Face to face interaction between teachers and students will get reduced.
- Need to attend classroom lectures may become history.
- Challenges of AI application can be overcome with proper disciplined use.
- Benefits seem more than the challenges of AI for student's community.

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Cite This Article:

Asst. Prof. Hirlekar S. (2026). *Impact of AI: Artificial Intelligence over Student community*. In **Aarhat Multidisciplinary International Education Research Journal**: Vol. XV (Number I, pp. 152–158)

Doi: <https://doi.org/10.5281/zenodo.18642000>