THE IMPACT OF ARTIFICIAL INTELLIGENCE ON THE LIFE OF STUDENTS

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ABSTRACT

This article investigates the impact of Artificial Intelligence (AI) on the academic and personal lives of students. The study aims to explore how students incorporate AI into their academic routines, identify the key benefits they gain, and assess their awareness of related ethical issues. Data was collected through a structured questionnaire focusing on students' AI usage patterns, academic improvements, emotional responses, and ethical awareness. The findings reveal that most students use AI tools a few times a week, primarily for homework, assignments, and understanding topics more easily. While many students reported improved learning efficiency and reduced stress, a significant number also expressed concerns about reduced independent thinking and limited awareness of ethical risks like plagiarism. The study highlights the growing role of AI in education, emphasizing both its advantages and the need for responsible usage among students.

KEYWORDS: Artificial Intelligence, AI tools in education, Learning efficiency, Ethical awareness Plagiarism, Academic performance

1. INTRODUCTION

Artificial Intelligence (AI) is rapidly transforming various aspects of modern life, and education is no exception. For students, AI is not just a futuristic concept—it's a powerful tool that is already reshaping how they learn, study, and interact with information. From intelligent tutoring systems and personalized learning platforms to automated grading and virtual assistants, AI technologies are making education more accessible, efficient, and tailored to individual needs. As schools and universities increasingly integrate AI into their systems, it's crucial to explore how these changes are influencing students' academic experiences, mental well-being, and future career prospects. This article delves into the multifaceted impact of AI on student life, highlighting both the opportunities and challenges it presents in today's educational landscape.

This article explores how students use AI in their academic lives, what benefits they derive from it,

and how aware they are of the ethical implications of its use. A structured questionnaire was conducted to gather responses on the frequency of AI usage, the areas most impacted by AI, and its effects on learning behavior and emotional well-being. The data reveals that while most students use AI a few times a week, many rely on it for assignments, research, and exam preparation. The study also highlights that although AI helps students learn at their own pace and reduces stress for some, many are unaware of the ethical issues tied to its use. By analyzing student responses, this article aims to offer a balanced view of how AI is influencing academic routines, mental well-being, and future readiness, while also stressing the importance of responsible and informed AI usage in educational contexts.

2. REVIEW OF LITERATURE:

Aniella Mihaela Vieriu and Gabriel Petrea (2025) examine the Impact of Artificial Intelligence (AI) on Students' Academic Development. This study provides a comprehensive examination of how AI integration affects students' academic performance and learning experiences.

Chunpeng Zhai, Santoso Wibowo & Lily D. Li (2024) explores the growing concern of students' over-reliance on AI dialogue systems in educational settings, particularly how it affects their cognitive skills such as critical thinking and decision-making. The study reveals that ethical issues tied to AI, including blind trust in its outputs, contribute significantly to reduced cognitive engagement.

Muyideen Dele Adewale, Ambrose Azeta,Adebayo Abayomi-Alli & Amina Sambo-Magaji (2024) explores the impact of AI on academic performance in open and distance learning (ODL), analyzing 64 studies from 2017 to 2023. It highlights the effectiveness of machine learning and statistical methods in predicting student outcomes, while noting a lack of empirical studies in the field.

Gina Eairheart and Roya Azimzadeh (2025) examine how AI-driven education influences college students' motivation, satisfaction, and self-efficacy. Drawing from 20 peer-reviewed articles, it highlights positive effects such as improved academic performance and learning attitudes through AI tools like chatbots. However, it also notes concerns about data privacy, academic dishonesty, and job displacement. The study encourages further research to better understand and refine AI's role in education.

Shan Wang,Fang Wang,Zhen Zhu, Jingxuan Wang, Tam Tran& Zhao Du (2024) provides a comprehensive overview of AI in education (AIED), analyzing over 2,000 articles to explore key application areas, research topics, and methodologies. It highlights major uses of AI such as personalized tutoring, intelligent assessment, and student profiling. The study also reveals a wide range of applied theories and multidisciplinary research contexts, while identifying gaps and

underexplored areas. Overall, it offers valuable guidance for scholars and researchers aiming to understand and expand the field of AIED.

Chen, Chen, and Lin (2020) conducted an extensive review of artificial intelligence (AI) applications in education, with a focus on personalized learning systems. Their study revealed that AI tools are capable of delivering adaptive content, real-time feedback, and targeted instruction based on a student's performance and preferences. The integration of intelligent tutoring systems (ITS) and adaptive learning platforms significantly improves student engagement and learning outcomes. The authors concluded that AI has the potential to support tailored learning experiences that promote deeper understanding and learner autonomy.

Holmes, Bialik, and Fadel (2021) explored how AI technologies enhance academic support. Their research examined the impact of AI-based tools like Grammarly, virtual assistants, and AI tutors on students' academic performance. The findings showed that such tools support learners in writing, comprehension, and problem-solving. They also provide round-the-clock academic assistance, enabling students to study independently. The authors concluded that AI fosters greater student engagement, confidence, and academic success by offering scalable, personalized learning support.

Fleming et al. (2021) investigated the use of AI in supporting student mental health, particularly through AI-based chatbots like Woebot and Wysa. Their study indicated that these tools provide accessible, low-cost psychological support and help reduce anxiety among students. However, they also noted a critical limitation: while chatbots can mimic empathy, they lack the emotional depth and understanding of human counselors. The authors concluded that AI should serve as a complementary tool rather than a replacement for traditional mental health services.

Luckin et al. (2016) focused on AI's role in skill development and personalized education. Their study highlighted how AI enables customized learning pathways based on individual performance metrics. AI systems continuously analyze student behavior to adjust pacing and content difficulty, allowing learners to progress at their own speed. The authors concluded that such personalization enhances educational efficiency, encourages student independence, and better aligns education with real-world skills.

Williamson and Eynon (2020) took a critical perspective, addressing the ethical and privacy concerns associated with AI in education. They discussed how AI applications, particularly emotion-tracking and surveillance technologies, can infringe on students' privacy and autonomy. Their findings emphasized that algorithmic bias and lack of transparency in AI decision-making pose risks to equity and fairness in educational contexts. The authors concluded that educational institutions must adopt ethical frameworks to govern the responsible use of AI.

International Journal of Research in Commerce and Management Studies

ISSN 2582-2292

Vol. 7, No. 05 Sep-Oct; 2025 Page. No. 208-222

D'Mello and Graesser (2015) explored affective computing in AI-driven learning environments. Their study examined how AI systems detect and respond to students' emotional states—such as frustration, boredom, or confusion—to adjust instructional strategies. These emotion-aware systems enhance student motivation, persistence, and engagement. The authors concluded that integrating emotional intelligence into AI tools creates more responsive and supportive learning experiences.

Fischer et al. (2020) analyzed the role of AI in career readiness and employability. Their research focused on how AI platforms like Coursera and LinkedIn Learning use learner data to recommend courses and track job market trends. These systems help students bridge the gap between academic learning and workforce requirements. The authors concluded that AI enhances career alignment by tailoring education to evolving industry demands.

Lastly, Selwyn (2019) offered a cautionary view of AI in education. He questioned whether AI could or should replace human teachers, expressing concerns about the loss of interpersonal relationships and the central role of human judgment in pedagogy. His analysis highlighted how algorithm-driven systems might reinforce existing inequalities and diminish the social aspects of learning. Selwyn concluded that AI should serve as a tool to support educators, not replace them.

3. IMPORTANCE OF THE STUDY:

The integration of Artificial Intelligence (AI) into education has transformed the learning environment, fundamentally altering the way students interact with information, instructors, and learning systems. Understanding the impact of AI on students' academic, social, and psychological lives is crucial for educators, policymakers, and technology developers. AI offers personalized learning pathways, real-time feedback, and intelligent tutoring systems that adapt to individual learning needs, significantly improving engagement and academic outcomes (Chen et al., 2020; Luckin et al., 2016). Moreover, AI technologies such as chatbots and emotion-detection systems have the potential to support students' mental health and well-being (Fleming et al., 2021; D'Mello & Graesser, 2015). However, the growing reliance on AI also raises ethical concerns, including privacy, algorithmic bias, and the depersonalization of education (Williamson & Eynon, 2020; Selwyn, 2019). This study is important because it provides real insights into how students are currently engaging with Artificial Intelligence (AI) tools in their academic lives. It informs how educational institutions can responsibly integrate AI to enhance learning outcomes while safeguarding student rights and emotional well-being. Furthermore, such research contributes to shaping future educational policies, infrastructure planning, and curriculum design to align with evolving technological advancements and labour market demands (Fischer et al., 2020; Holmes et al., 2021). By focusing on actual student experiences, this study helps educators, institutions, and policymakers understand both the positive and negative impacts of AI in education. It also emphasizes the need for responsible AI use and the importance of educating students about ethical practices. Ultimately, this research supports the

International Journal of Research in Commerce and Management Studies

ISSN 2582-2292

Vol. 7, No. 05 Sep-Oct; 2025 Page. No. 208-222

development of more balanced and informed approaches to integrating AI in student learning environments. Therefore, this study is vital to provide a balanced understanding of both the opportunities and challenges AI presents in education.

4. STATEMENT OF THE PROBLEM:

The integration of Artificial Intelligence (AI) in education has significantly influenced the academic routines of students, offering tools that simplify learning, improve writing, and support personalized education. However, the growing reliance on AI raises important concerns. While many students benefit from improved understanding, stress reduction, and efficient study habits, a considerable number also show signs of reduced independent thinking and limited awareness of ethical issues like plagiarism and data privacy. The problem lies in the imbalance between the benefits students gain and their understanding of the potential risks associated with AI usage. This study seeks to explore how students use AI in their academic lives, identify the key advantages they experience, and evaluate their level of awareness about the ethical challenges posed by increasing AI dependence.

5. OBJECTIVES:

1. To explore how students use AI in their academic routine.
2. To identify key benefits that students gain from using AI in their life.
3. To evaluate awareness of AI related ethical issues.
4. Positive and negative impact of AI in education.

6. RESEARCH METHODOLOGY

This study uses a quantitative research approach to examine how Artificial Intelligence (AI) affects students' academic routines, the benefits they experience, and their awareness of ethical issues related to AI usage.

6.1. **Research Design: -** A descriptive survey method was employed to gather data through a structured questionnaire. This design was chosen to collect specific, measurable responses related to students' use and perception of AI in education.

6.2. **Participants: -** The study was conducted among 150 UG students from different colleges in Perinthalmanna locality, Malappuram district who were selected using purposive sampling. These students were chosen based on their familiarity with AI tools in their academic activities, ensuring relevance to the study's objectives.

6.3. **Data Collection Tool: -** Data was gathered using questionnaire. The questions focused on three key areas frequency and purpose of AI usage; benefits gained from using AI and awareness of

ethical issues such as plagiarism and data privacy

6.4. **Data Collection Process: -** The questionnaire was distributed directly to the selected students. They were informed about the study's purpose and assured that their responses would remain confidential. Responses were collected within a set timeframe for consistency.

6.5. **Data Analysis: -** The responses were analyzed using basic statistical methods, including frequency counts and percentage calculations, to interpret trends and patterns in students' AI usage, perceived benefits, and ethical awareness. The analysis was used to draw conclusions related to the objectives of the study.

7. Limitations of the Study

- ➤ The study is limited to a sample size of 150 students, which may not fully represent the diversity of student experiences across regions and institutions.
- ➤ It relies on self-reported data, which may include biases in perception or recall.
- ➤ The study primarily focuses on general AI tools; domain-specific AI applications (e.g., in STEM vs. humanities) were not deeply examined.
- ➤ Long-term effects of AI use on learning behaviour were not assessed due to the cross-sectional nature of the data.

8. ANALYSIS AND DISCUSSION.
8.1. DEMOGRAPHIC PROFILE:

Table.8.1.1. Demographic Profile of Respondents

Variable	Category	Frequency (n)	Percentage (%)
Gender	Male	68	45.3%
	Female	82	54.7%
Education Level	Undergraduate (UG)	90	60%
	Postgraduate (PG)	60	40%
Age Group	18–20 years	55	36.7%
	21–23 years	70	46.7%
	24–26 years	25	16.6%
Stream of Study	Arts/Humanities	45	30%

Variable	Category	Frequency (n)	Percentage (%)
	Science	40	26.7%
	Commerce/Management	35	23.3%
	Computer Applications/IT	30	20%

(Source: Primary data)

Interpretation

A slightly higher proportion of female students (54.7%) participated in the study compared to males (45.3%). The sample includes more UG students (60%) than PG students (40%), which is typical of academic populations as UG programs tend to have higher enrolment numbers. The majority of students fall within the 21–23 age group (46.7%), which is common for final-year UG and early PG students. Students aged 18–20 (36.7%) likely represent early UG learners. A smaller segment (16.6%) in the 24–26 group may reflect PG students or those who have taken academic breaks. Students from Arts/Humanities (30%) form the largest segment, suggesting a strong interest or curiosity about AI despite a non-technical background. Science and Commerce/Management streams also make up a significant portion (26.7% and 23.3% respectively). Students from Computer Applications/IT (20%), while fewer, are likely to have a more direct understanding of AI technologies.

Table8.1.2. AI Usage in Students' Academic Routine

AI Tool / Use Case	Frequently Used	Sometimes Used	Rarely Used	Never Used
AI for Writing Assistance (e.g., ChatGPT, Grammarly)	85 (56.7%)	45 (30%)	15 (10%)	5 (3.3%)
AI for Research (e.g., Semantic Scholar, Elicit, Google Scholar AI tools)	62 (41.3%)	60 (40%)	20 (13.3%)	8 (5.4%)
AI for Exam/Test Preparation (e.g., Quizlet AI, chatbots)	40 (26.7%)	55 (36.7%)	35 (23.3%)	20 (13.3%)
AI for Coding Help (e.g., GitHub Copilot, ChatGPT)	25 (16.7%)	35 (23.3%)	30 (20%)	60 (40%)
AI for Language Learning (e.g., Duolingo AI, Translate AI)	20 (13.3%)	30 (20%)	45 (30%)	55 (36.7%)
AI for Time/Task Management (e.g., Notion AI, AI planners)	15 (10%)	30 (20%)	35 (23.3%)	70 (46.7%)
AI in Presentations / Design (e.g., Canva	45 (30%)	50 (33.3%)	30 (20%)	25

AI Tool / Use Case	Frequently Used	Sometimes Used	Rarely Used	Never Used
AI, Microsoft Designer, Tome)				(16.7%)

(Source: Primary datat)

Interpretation

AI for Writing Assistance (e.g., ChatGPT, Grammarly): A large majority of students (56.7%) use AI tools frequently or sometimes for writing assistance. Only a small fraction (3.3%) never use these tools, suggesting widespread acceptance and integration into academic writing processes.

AI for Research (e.g., Semantic Scholar, Elicit, Google Scholar AI tools: Around 81.3% of students use AI tools for research at least sometimes, with 41.3% using them frequently. Limited non-usage (5.4%) indicates high AI penetration in research behaviour.

AI for Exam/Test Preparation (e.g., Quizlet AI, chatbots): About 63.4% of students use AI tools for exam/test preparation to some extent. However, only 26.7% use them frequently. This suggests moderate but growing trust in AI for revision and practice, possibly due to a lack of awareness of dedicated tools or dependence on traditional methods like handwritten notes.

AI for Coding Help (e.g., GitHub Copilot, ChatGPT): Only 16.7% of students use coding-related AI tools frequently, and 40% never use them. This reflects the specific nature of these tools primarily relevant to Computer Science, IT, or technical students.

AI for Language Learning (e.g., Duolingo AI, Translate AI): 63.3% of students either rarely or never use AI for language learning. 13.3% frequent users could be those learning new languages or needing translation tools for academic content.

AI for Time/Task Management (e.g., Notion AI, AI planners): With 46.7% of students never using AI for time or task management, this area is significantly underutilized. Only 10% use such tools frequently.

AI in Presentations / Design (e.g., Canva AI, Microsoft Designer, Tome): 63.3% of students use AI tools for creating presentations and visual content. Tools like Canva AI are increasingly popular for making academic presentations visually appealing. Frequent and occasional users dominate, while only 16.7% never use such tools indicating strong emerging trends in creative academic output aided by AI.

Table 8.1.3. Key Benefits of Using AI – Student Perspectives

Benefit of AI Usage	No. of Students (n)	Percentage (%)
Improved Academic Performance	98	65.3%
Saves Time and Increases Efficiency	105	70%
Access to Instant Help and Clarifications	90	60%
Enhanced Creativity and Presentation Quality	75	50%
Personalized Learning Experience	65	43.3%
Reduces Academic Stress	70	46.7%
Improved Coding and Technical Skills	40	26.7%
Language Support and Translation Help	38	25.3%
Better Time Management	30	20%

(Source: Primary data)

Interpretation:

A majority of the respondents (70%) reported that AI helps save time and increases their overall efficiency, highlighting AI's role in streamlining study processes and academic workload. Additionally, 65.3% noted that AI has contributed to improved academic performance, indicating its effectiveness in enhancing understanding and outcomes. Access to instant help and clarifications was appreciated by 60% of students, suggesting that AI tools such as chatbots and virtual tutors play a crucial role in supporting timely learning. Half of the participants (50%) believed that AI enhanced their creativity and presentation quality, likely through design tools, content generators, and editing software. Personalized learning experiences were acknowledged by 43.3% of the respondents, showing that AI enables tailored educational paths. Moreover, 46.7% of students stated that AI reduces academic stress, possibly by offering better academic planning and support. While only 26.7% credited AI with improving coding and technical skills, and 25.3% with language support and translation help, these figures still represent a valuable impact on skill development. Lastly, 20% of students felt that AI tools aided in better time management. Overall, the data reflects that AI is widely viewed as a positive and supportive force in the educational experiences of students, with particular strengths in efficiency, academic support, and personalized learning.

Table8.1.4. Awareness of AI-Related Ethical Issues (n = 150)

Ethical Issue	Aware (n)	Aware (%)	Not Aware (n)	Not Aware (%)
Plagiarism & Academic Misuse	98	65.3%	52	34.7%
Data Privacy	68	45.3%	82	54.7%
Algorithmic Bias	38	25.3%	112	74.7%
Over-Reliance on AI	45	30%	105	70%
Lack of Transparency	30	20%	120	80%
Informed Consent	27	18%	123	82%

(Source: Primary Data)

Interpretation:

A majority of students (65.3%) are aware of plagiarism and academic misuse associated with AI tools, indicating a general understanding of academic integrity and 34.7% are not aware about this. Only 45.3% of students reported awareness of data privacy issues, revealing that more than half of the respondents do not recognize the risks of personal information being collected or misused by AI platforms. Awareness of algorithmic bias is even lower, with just 25.3% acknowledging that AI systems can reflect or reinforce societal inequalities, indicating a gap in understanding of how these tools are trained and operate. Further, only 30% of the students are concerned about over-reliance on AI tools, which may compromise their ability to think critically or develop original ideas. An even smaller proportion, 20%, are aware of the lack of transparency in AI systems. Lastly, informed consent—understanding and agreeing to the terms of using AI tools—was the least recognized ethical issue, with only 18% awareness. This lack of concern for consent shows that students often engage with AI technologies without fully understanding how their data might be used or shared. Overall, while students are aware of immediate ethical risks like plagiarism, they demonstrate limited awareness of broader ethical implications, underlining the urgent need for structured education on AI ethics, digital rights, and responsible technology use in academic settings.

Table 8.1.5 Positive and Negative Impacts of AI in Education

Impact of AI	No. of Students	Percentage (%)
Improved Academic Performance	98	65.3%
Saves Time and Increases Efficiency	105	70%
Access to Instant Help and Clarifications	90	60%
Enhanced Creativity and Presentation Quality	75	50%
Personalized Learning Experience	65	43.3%
Reduces Academic Stress	70	46.7%
Improved Coding and Technical Skills	40	26.7%
Language Support and Translation Help	38	25.3%
Better Time Management	30	20%

(Source: Primary data)

Interpretation

The responses from 150 students indicate that AI is making a significant positive impact on their educational experiences. A majority of students (70%) reported that AI helps them save time and increase efficiency, making study routines more streamlined and organized. Additionally, 65.3% mentioned improved academic performance due to AI tools like ChatGPT, Grammarly, and other AI-based learning platforms, which assist in understanding complex concepts and enhancing writing and problem-solving skills. Furthermore, 60% of students found AI useful for accessing instant help and clarifications, allowing them to learn independently and at their own pace. Half of the respondents (50%) acknowledged that AI tools enhance creativity and the quality of presentations, while 43.3% noted that AI allows for personalized learning experiences tailored to individual needs. Interestingly, 46.7% of students also said that AI reduces academic stress by helping them manage workloads and deadlines more efficiently. However, fewer students (26.7%) reported that AI improved their technical or coding skills, and only 25.3% cited benefits related to language support or translation, indicating that these features may be underutilized or less accessible. Additionally, just 20% credited AI with helping in better time management, suggesting that while AI can assist with learning, time discipline may still require personal effort and habits.

Overall, the data reflects a strong inclination among students to embrace AI for academic support, with particularly high satisfaction related to efficiency, performance, and learning assistance. However, there are still areas where awareness and use of AI could be enhanced, especially in skill development and strategic time management. This calls for a balanced integration of AI tools with

guidance on ethical use and critical thinking.

9. FINDINGS

The findings of this study reveal that Artificial Intelligence (AI) plays an increasingly central role in the academic lives of students. A substantial number of respondents (70%) reported that AI tools significantly help them save time and increase productivity, especially when managing assignments, preparing for exams, or conducting research. Moreover, 65.3% of students observed a marked improvement in academic performance, attributing this to the use of AI-based platforms such as ChatGPT, Grammarly, and various adaptive learning systems that enhance comprehension and provide immediate feedback. About 60% of students expressed that AI offers instant help and clarifications, enabling them to resolve doubts without waiting for human intervention, thereby encouraging more independent learning. Additionally, 50% acknowledged improved creativity and presentation quality, citing tools that assist with graphic design, layout, and content enhancement. Importantly, 43.3% felt that AI tools allowed for a more personalized learning experience, adapting content to suit their pace and learning style. Furthermore, 46.7% indicated a reduction in academic stress due to AI's ability to simplify difficult topics and automate repetitive tasks. However, while these benefits are substantial, the data also revealed that only 26.7% of students credited AI with enhancing their coding or technical skills, and just 25.3% reported benefits from language support and translation tools. Time management improvements were noted by only 20% of students, indicating that while AI may aid in efficiency, it does not necessarily instill time-management discipline. Notably, awareness of AI-related ethical concerns remains alarmingly low. While 65.3% of students were aware of plagiarism risks, fewer than half (45.3%) were familiar with data privacy issues, and a mere 18–30% had any understanding of more nuanced topics like informed consent, algorithmic bias, or lack of transparency in AI systems. These findings underscore a widespread use of AI for academic benefits, but also reveal a critical gap in students' understanding of its ethical implications.

10. SUGGESTIONS:

1.Increase Ethical Awareness

Colleges should provide training sessions and materials on AI ethics, especially addressing plagiarism, data security, and fair use of AI tools.

2.Encourage Responsible AI Use

Promote AI as a supportive tool, not a complete solution. Educators should guide students in using AI to enhance—not replace—critical thinking.

3.Include AI Education in Curriculum

Introducing AI literacy and responsible usage into the syllabus can better prepare students for academic and career challenges.

4.Promote Personalized AI Platforms

Encourage the use of AI platforms that offer personalized learning experiences, helping students with different learning speeds and styles.

5. Monitor AI Dependence and Well-being

Institutions should track how AI usage impacts students' thinking abilities and mental health and offer support if over-reliance or stress is observed.

the advantages of technology with critical thinking and ethical awareness to ensure students are both academically and professionally prepared.

11. CONCLUSION

In conclusion, this study demonstrates that Artificial Intelligence is having a transformative effect on student life, offering significant advantages in terms of academic performance, learning flexibility, and emotional well-being. Most students utilize AI tools regularly, particularly for tasks that demand efficiency and clarity—such as writing assignments, organizing study notes, and preparing for exams. These tools have empowered students to learn at their own pace, receive instant academic support, and explore topics more creatively and independently. AI technologies have also contributed to reducing academic stress for many, particularly by breaking down complex subjects and enabling easier access to quality resources. However, the findings also reveal that this growing reliance on AI is not without risks. A key concern is students' limited awareness of the ethical challenges posed by AI, including issues of data privacy, algorithmic bias, lack of informed consent, and academic dishonesty. Many students appear to use AI tools as black boxes—benefiting from outputs without understanding the processes or implications behind them. Furthermore, while AI supports cognitive and creative learning, it may inadvertently encourage passive learning and over-dependence if not guided by responsible usage policies. This dual reality calls for a more balanced and informed integration of AI into educational environments. Institutions must not only encourage the effective use of AI but also ensure that students understand the broader implications of these technologies. Introducing AI ethics into the curriculum, fostering digital literacy, and promoting critical engagement with AI outputs are essential steps toward responsible AI adoption. By addressing these gaps, educators can help students become not only proficient users of AI but also ethical and reflective learners prepared for a future shaped by intelligent systems.

REFERRENCE:

1. Adewale, M. D., Azeta, A., Abayomi-Alli, A., & Sambo-Magaji, A. (2024, November 30). Impact of artificial intelligence adoption on students' academic performance in open and distance learning: A systematic literature review. *Heliyon, 10*(22), e40025. https://doi.org/10.1016/j.heliyon.2024.e40025

2. Chen, L., Chen, P., & Lin, Z. (2020). Artificial intelligence in education: A review. *IEEE Access, 8*, 75264–75278. https://doi.org/10.1109/ACCESS.2020.2988510

3. D'Mello, S. K., & Graesser, A. C. (2015). Feeling, thinking, and computing with affect-aware learning technologies. In R. A. Calvo et al. (Eds.), *The Oxford handbook of affective computing* (pp. 419–434). Oxford University Press.

4. Eairheart, G., & Azimzadeh, R. (2025, February). The impact of artificial intelligence on college students' education and social behavior. *Open Access Library Journal, 12*, e12961. https://doi.org/10.4236/oalib.1112961

5. Fischer, C., Pardos, Z. A., Baker, R. S., & Smyth, P. (2020). Mining big data in education: Affordances and challenges. *Review of Research in Education, 44*(1), 130–160. https://doi.org/10.3102/0091732X20903304

6. Fjeld, J., Achten, N., Hilligoss, H., Nagy, A. C., & Srikumar, M. (2020). *Principled artificial intelligence: Mapping consensus in ethical and rights-based approaches to principles for AI.* Berkman Klein Center for Internet & Society.

7. Fleming, T., Bavin, L., Lucassen, M., Stasiak, K., Hopkins, S., & Merry, S. (2021). Equine or android? A cautionary tale of AI in youth mental health support. *Journal of Adolescent Health, 68*(5), 842–844. https://doi.org/10.1016/j.jadohealth.2021.01.001

8. Holmes, W., Bialik, M., & Fadel, C. (2019). *Artificial intelligence in education: Promises and implications for teaching and learning.* Center for Curriculum Redesign.

9. Holmes, W., Bialik, M., & Fadel, C. (2021). *Artificial intelligence in education: Promises and implications for teaching and learning* (Updated ed.). Center for Curriculum Redesign.

10. Luckin, R., Holmes, W., Griffiths, M., & Forcier, L. B. (2016). *Intelligence unleashed: An argument for AI in education.* Pearson Education.

11. Selwyn, N. (2019). *Should robots replace teachers? AI and the future of education.* Polity Press.

12. Vieriu, A. M., & Petrea, G. (2025, March 11). The impact of artificial intelligence (AI) on students' academic development. *Education Sciences, 15*(3), 343. https://www.mdpi.com/2227-7102/15/3/343/html

13. Wang, S., Wang, F., Zhu, Z., Wang, J., Tran, T., & Du, Z. (2024, October 15). Artificial intelligence in education: A systematic literature review. *Expert Systems with Applications, 252*(4), 124167. https://doi.org/10.1016/j.eswa.2024.124167

14. Williamson, B., & Eynon, R. (2020). Historical threads, missing links, and future directions in AI in education. *Learning, Media and Technology, 45*(3), 223–235. https://doi.org/10.1080/17439884.2020.1798995

15. Zawacki-Richter, O., Marín, V. I., Bond, M., & Gouverneur, F. (2019). Systematic review of research on artificial intelligence applications in higher education – Where are the educators?

International Journal of Educational Technology in Higher Education, 16(1), 1–27. https://doi.org/10.1186/s41239-019-0171-0

16. Zhai, C., Wibowo, S., & Li, L. D. (2024, June 18). The effects of over-reliance on AI dialogue systems on students' cognitive abilities: A systematic review. *Smart Learning Environments, 11*, 28. https://rdcu.be/ewDgp