

## **Artificial Intelligence Impact on Education and Human Relationships**

Ms. Jyoti<sup>1</sup>, Ms. Aakansha Varshney<sup>2</sup> & Ms. Pratibha Gupta<sup>3</sup>

<sup>1</sup>Research Scholar, Department of Education, NIILM University, Kaithal

ORCID id: <https://orcid.org/0009-0009-5004-649X>

<sup>2</sup>Research Scholar, Department of Education, NIILM University, Kaithal

ORCID id: <https://orcid.org/0009-0008/5640/5791>

<sup>3</sup>Research Scholar, Department of Psychology, NIILM University, Kaithal

ORCID id: <https://orcid.org/0009-0004-8213-7402>

### **ABSTRACT**

Technology play a very important role in transforming our world let it be social, political, environmental, cultural, educational or in terms of human relationship. AI is continuously transforming education by personalizing the experiences of learners, automating administrative tasks, offering new ways to enhance personalized learning, improve assessments, and reduce planning time for teachers and enhancing teaching strategies. AI analyzes student data and tailor learning experiences to individual learning needs which provide customized learning pathways and feedback; it also offers a more customized approach to education. This will not only improve learning outcomes and student engagement but can also reduce dropout rates. AI also improve assessments by providing instant feedback and allowing for a more accurate evaluation of student performance. In this process AI in education and human relationship also raises concerns about privacy, bias, and the de-humanization of the learning experience. This paper explores different types of tools used in AI, its potential benefits and risks in education and also study's the impact on human relationship. This paper will show the impact of AI tools on today's generation as they are using it on large scale. AI's potential benefits and risks.

On one hand it will explores AI's potential benefits that has enhanced relationships through personalized support and companionship, but on the other hand it also talk about risks that has also raised concerns about emotional connections and the potential for over reliance on technology which is resulting in development of weak human relationships. Its impact on

human relationship has many dimensions which is affecting the various aspects from personal interaction to personal settings in personal as well as professional life. The psychological consequences of having AI as companionship are enormous. At the core of this is that meaningful human relationships are crucial for emotional wellness and lowering feelings of loneliness and general life contentment. Suppose people add AI (Artificial Intelligence) as the primary option for companionship to the picture. In that case, there is a risk of alienating from authentic relationships even more, deepening the feelings of loneliness. The love feeling comes from genuine human interactions, unlike AI, which is based on algorithms and information instead of genuine feeling and true individual connection.

*Keywords:* Introduction, Types and Tools of AI in Education, AI impact on Human Relationship, Benefits and Risk of AI on Human Relationships

### **Introduction:**

Artificial intelligence (AI) is transforming our world, and there is no exception in education and human relationships also. AI is continuously transforming education by personalizing the experiences of learners, automating administrative tasks, offering new ways to enhance personalized learning, improve assessments, and reduce planning time for teachers and enhancing teaching strategies. AI analyzes student data and tailor learning experiences to individual learning needs which provide customized learning pathways and feedback, it also offers a more customized approach to education. This will not only improve learning outcomes and student engagement but can also reduce dropout rates. AI also improve assessments by providing instant feedback and allowing for a more accurate evaluation of student performance. AI based tools reduced teacher planning time by automating administrative tasks like grading and reporting, freeing teachers to focus on more practical teaching activities. AI also streamlines administrative tasks for educators, allowing them to focus on student engagement and lesson delivery. AI has the potential to revolutionize teaching and learning. AI is increasingly playing an important role in human relationships, both positively and negatively. AI's growing presence in daily life, especially with the rise of companion AI applications like chat-bots and social robots, is significantly impacting human relationships. Studies are exploring this dual-edged nature, examining both the potential benefits and the risks associated with increasing reliance on AI for social and emotional needs. However, using AI in education and human relationship also

raises concerns about privacy, bias, and the de-humanization of the learning experience. Now a days, technology is playing a very important role in decision-making, learners are learning faster, retaining more information, and actually enjoying the process. But what is most shocking is that the AI wasn't replacing human connection in education rather is amplifying it. **AI is** helping humans to use information and knowledge properly to make suitable decisions for their organization and innovations. Humans are producing large volumes of data, and to make it efficient, firms are adopting and using AI and kicking humans out of using the data. Humans think they are getting benefits and saving time by using AI in their decisions. But it is overcoming the human biological processors through lowering cognition capabilities. It is a fact that AI technologies and applications have many benefits. Still, AI technologies have severe negative consequences, and the limitation of their role in human decision-making is one of them. Slowly and gradually, AI limits and replaces the human role in decision-making. Human mental capabilities like intuitive analysis, critical thinking, and creative problem-solving are getting out of decision-making ((Sayed Fayaz Ahmad, 2023). Consequently, this will lead to their loss as there is a saying, 'use it or lose it'. The speed of adaptation of AI technology is evident from the usage of AI in the strategic decision-making processes.

### **Objective:**

The objective of this study is to explore different types of tools used in AI. To study AI's potential benefits and risks in education and also study's the impact on human relationship. This paper is showing the impact of AI tools, which today generation is using on large scale. Its potential benefits and risks which is resulting in development of weak human relationships.

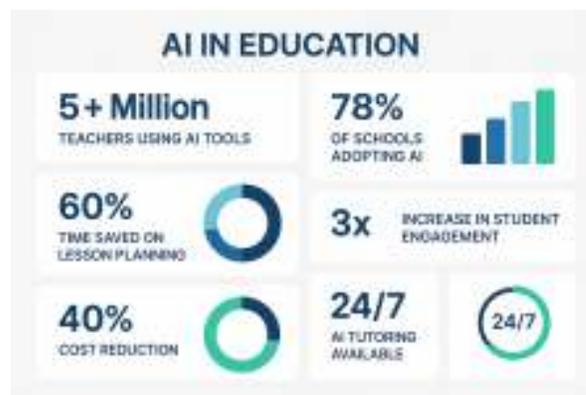
### **Methodology:**

This research is based on descriptive approach of research where secondary data collected from various publications, articles, reports, and websites. The goal of this study is to explore the challenges, opportunities, and benefits of Artificial intelligence in Education (AIED) discipline from the existing historical trends. To achieve this, the research questions were framed: What are the opportunities, benefits, and challenges of AI adoption in education? The search term/key was generated from the main objectives. The key terms used for the search

were- Artificial intelligence, education, different tools and implications, benefits, and challenges.

## **Types and Tools of AI in Education**

With the application of AI in educational institutions, several administrative tasks have been automated and others are still being automated to give educators more time to spend on students. Recent trends have shown that AI has created a major impact on education. Over more than 5 million teachers are using AI tools which is saving 60% of their preparation time on lesson planning or using inclusive education in class and educators are switching to this new technology because of the easy accessibility and availability of tools 24x7, as these AI tools are mostly freely available. Approximately 78% of schools have started using and adopting AI in recent times and this percentage is increasing day by day. Student's engagement rates in classroom have tripled due to AI enhanced technologies used in classrooms.



The most effective educators of 2025 aren't just teachers, they're AI-powered learning architects who are personalizing education for every student, create engaging content in minutes, and provide instant feedback that actually helps students grow.

This section will discuss the different types of transformation AI has brought into education. **AI tools aren't just software. They're gateway for becoming an educator which one always dreamed of being.** Although there are other areas also which are influenced by AI, but only relevant tools will be discussed here briefly which are related to the current topic.

### **1. AI Question Paper Generator:**

Crafting a question paper for any exam or internal assessment can be quite time-consuming, requiring heavy reliance on subject matter experts. However, Artificial Intelligence (AI) now offers an automated solution to this task. With the [AI question paper generator](#), teacher can simply feed in chapter or text content and then AI will do its magic. Educators can even specify the type of questions they want like multiple-choice, descriptive, coding-based questions or queries assessing communication skills.

The system will scan through the provided content and generate a question paper tailored to the educators specific requirements regarding difficulty level, target audience age group and skill set to be assessed. Even if no content is supplied by educator, then also the system intelligently generates a suitable question paper based on outlined needs. Advantages of AI question paper generator include:

- It eliminates question paper leaks.
- Helps in automate question paper creation process.
- It manages role-based access to define questions and also generate sets of question papers instantly.
- In future assessments or tests for candidates, educators can rely on AI question paper generator which will simplifies automation and accelerates the process of generating exam papers.

## **2. Magic School AI:**

[Magic School AI](#) is the leading AI platform for educators, which is trusted by over 5 million teachers and their students worldwide. In this comprehensive platform one can get more than 60 AI-powered tools specifically designed for the teaching profession. This platform helps teachers with lesson planning, assignment creation, material generation, newsletter writing, etc. It focuses on addressing the unique challenges and needs of educators; making it a standout tool in the AI education space. Teachers can create differentiated content, generate rubrics, design interactive activities, and even get help with parent communication. This platform is designed to save teachers time while improving the quality of educational materials.

### **3. Generative AI Assessments:**

It is a web-based AI-powered system that defines interactive, engaging [Generative AI assessments](#). Now, defining case study-based questions, scenario-based questions, and practical assessments of user skills has become easy with this AI tool. In this system they ask probing questions to candidates to assess skills based on initial context. Candidate need to respond to it. Generative AI would come up with the next question related to the candidate's response and main context. After engaging in interaction system comes up a rating for the user for various skills. Skill-based evaluation can be easy using a generative AI assessment approach.

### **4. AI Communication Skill Assessments- Eklavya**

As, communication is the cornerstone of customer support so evaluating it manually is a challenging, time-consuming, and biased task. [AI Voice Assessment](#) transforms this process by offering a comprehensive evaluation of communication skills in just minutes. They evaluate critical skills like:

**Reading Skills:** Candidates are asked to read specific passages aloud. The AI system evaluates pronunciation, fluency, and clarity, identifying strengths and areas for improvement.

**Speaking Skills:** Candidates respond to verbal prompts, and the AI analyzes their grammar, vocabulary, tone, and confidence level. This is especially useful for gauging fluency in regional or international languages.

**Listening Skills:** Candidates listen to audio prompts and answer questions to test their comprehension and quick-thinking abilities.

**Writing Skills:** Typing exercises are evaluated for grammar, sentence structure, and coherence, ensuring candidates can communicate effectively via email or chat.

### **5. Gamma AI**

[Gamma AI](#) is a revolutionary presentation and content creation tool that uses artificial intelligence to help educators, learners and students for creating beautiful presentations, websites, and documents in minutes. No prior coding or design skills are required. If we talk about educators, Gamma AI is particularly valuable for creating engaging lesson materials,

interactive presentations, and educational websites. This AI will automatically generate professional designs, layouts, and even suggest relevant content based on the topic. Teachers or any learner can input their lesson topics, and Gamma AI will create a complete presentation with appropriate visuals, layouts, and content structure, saving hours of preparation time while ensuring professional-quality results.

## **6. Grammarly for Education**

[Grammarly for Education](#) is an AI-powered writing assistant that provides real-time support for both students and teachers. This platform offers advanced grammar checking, style suggestions, and even plagiarism detection capabilities. Especially for students, Grammarly helps improve writing skills by providing instant feedback and suggestions. In case of teachers, it assists in creating error-free educational materials and provides tools for detecting AI-generated content and potential plagiarism in student work. This educational version includes features specifically designed for academic writing, making it an invaluable tool for improving writing quality across all educational levels.

## **7. Canva**

[Canva for Education](#) is a free design platform specifically created for teachers, learners and students. The platform includes AI-powered design tools like Magic Design that can automatically create professional-looking educational materials. Teachers can create lesson materials, info graphics, presentations, posters, and other visual content without any design experience. This AI suggests layouts, colors, and design elements based on the content and purpose with thousands of educational templates and resources, Canva makes it easy for educators to create engaging visual content that enhances learning experiences.

## **8. Scholarcy**

[Scholarcy](#) is an AI-powered research tool that automatically summarizes research papers, articles, and documents. It extracts key information, highlights important findings, and creates structured summaries that save valuable time for students and researchers. This AI tool is particularly useful for literature reviews, research projects, and staying updated with the latest academic publications. Scholarcy can process multiple document formats and provides citations

and references for easy academic use. For educators and students dealing with large volumes of academic content, Scholarcy significantly reduces the time needed to process and understand research materials.

## **9. Scite**

[Scite](#) is an AI-powered citation analysis tool that helps researchers and students understand how research papers have been cited in subsequent literature. It provides context for citations, showing whether they support, contradict, or simply mention the original work. This tool is invaluable for students and researchers who need to understand the impact and reliability of research papers. Scite helps users make informed decisions about which sources to trust and cite in their own work. The uses of this AI is to analyze millions of citations and provides insights that would be impossible to gather manually, making it an essential tool for serious academic research.

## **10. DocuExprt**

Document verification still is a manual process, but with the onset of advanced AI tools, it is quite possible to automate the document verification process. [DocuExprt](#) is a specially designed software platform for the automation of document verification. It can extract or analyze information from any specified document with the support of artificial intelligence.

## **11. Synthesia**

[Synthesia](#) is an AI video creation platform which allows educators or learners to create professional-quality educational videos without cameras or studios. Users can simply create AI-generated videos with realistic avatars that can speak in multiple languages. For educators, Synthesia is valuable for creating instructional videos, course content, and multilingual educational materials. This platform makes video creation accessible to teachers who may not have video production skills or resources. The ability to create videos in multiple languages makes Synthesia particularly useful for diverse educational environments and online learning platforms.

## **12. Quizlet**

[Quizlet](#) is one of the most evolved AI-powered study platform that helps students learn through flashcards, games, and practice tests. This AI features help create study materials, suggest learning modes, and adapt to individual learning preferences. This platform's AI can generate practice questions, create study guides from textbooks, and provide personalized study recommendations. Students can study collaboratively and access millions of study sets created by other users.

## **Literature Review**

After viewing several research papers and journals we understand when we are going for selecting AI tools for educational purposes, it's important to evaluate them based on several key criteria to ensure they provide real value to end users. There are several factors that can be considered for ensuring that one can choose the best fit AI tool as per the needs-

**1. Learning goals:** AI tool should aligns with the specific educational objectives. The best tools should directly support learning outcomes and enhance the educational experience rather than just adding technology for its own sake.

**2. Integration:** By looking for tools that integrate with existing educational technology stack. The most valuable AI tools work well with learning management systems, student information systems, and other platforms which are already used by others.

**3. User-friendliness:** Choosing tools that are intuitive and easy to use for both teachers and students can make learning curve minimal, which allows users to focus on education rather than struggling with complex interfaces.

**4. Data privacy and security:** By ensuring that any AI tool one chooses to complies with educational data privacy regulations such as FERPA and COPPA. Student data protection should be a top priority when selecting educational technology.

**5. Customization:** The best AI tools offer customization options that allow educators to tailor the experience to their specific needs, teaching styles, and student populations.

**6. Cost:** Considering the total cost of ownership, including subscription fees, training costs, and implementation expenses. Many excellent AI tools offer free versions or educational discounts.

**7. Technical support:** When looking for tools that provide adequate technical support and training resources. Good customer support can make the difference between successful implementation and frustration.

**8. Proven effectiveness:** Choosing right tools will demonstrated a positive outcomes in educational settings. Looking for case studies, research, and testimonials from other educators have successfully used the tools.

**9. Regular updates and improvement:** Select tools from companies that regularly update their platforms and add new features based on user feedback and technological advances.

As good as Artificial Intelligence and technological advancement is, the advanced technology comes with its own set of challenges that, if not addressed carefully can hinder AI integration and optimal usage. As revolutionary as artificial intelligence is, it raises many ethical questions. AI usage has led to many concerning incidents, such as deep fakes, misinformation, copyright issues, property rights, etc., when not protected by regulatory compliance. (University of San Diego's innovative, 2024)

**The AI regulations ensure that the digital ecosystem evolves without misusing AI's capabilities. These challenges are:**

**1) Poor Data Quality:** The biggest challenge of AI is not monitoring the quality of training data. Using incorrect datasets or unreliable sources can lead to biased or inaccurate responses from the AI model.

**2) Hallucinations:** When trained on incomplete data sets or when AI makes wrong assumptions, it generates misleading results. This is called AI hallucination and can pose a huge challenge for businesses.

**3) Privacy Issues:** As a large amount of data needed for AI training, when used without user consent, it can leads to data breaches. This needs to be regulated with appropriate policies and compliances.

**4) Lack of Inclusivity:** Lack of proper representation during training results in poor responses and misinformation about a certain demographic is one important risk of AI. This should be considered to make AI a non-partial digital solution.

**5) Legal Issues:** The rise of AI has created many challenges regarding ownership, proper usage, and intellectual rights. Defining these legalities is as much a challenge as it is a necessity.

### **Dependence on AI and Over-Reliance on Human Relations**

Balancing AI with authentic connections is the key to leverage AI as a tool to enhance human connection, not replace it. AI can give emotional support but it could hinder the development of genuine human connections and potentially lead to social isolation.

**1) Lack of Authenticity:** AI companions may simulate empathy and understanding, but they lack the capacity for genuine, reciprocal emotional connection, which can be problematic. The use of AI-generated responses can blur the lines of genuine communication, raising questions about the authenticity of interactions.

**2) Ethical Concerns:** The use of AI in relationships raises ethical questions about manipulation, authenticity, and the potential for exploitation. AI dating apps and companions gather extensive personal data, which raises concerns about potential misuse or data breaches.

**3) Impact on Social Skills:** Excessive use of AI for social interaction could potentially hinder the development of crucial social skills needed for navigating real-world relationships.

**4) Erosion of Human Connection:** Some researchers and commentators express concerns that AI-driven relationships could diminish the value and depth of human connection, potentially leading to a less empathetic and more superficial society. Over-reliance on AI for social interaction could potentially lead to a decline in face-to-face communication and the development of interpersonal skills. It also risks in **Prioritizing genuine interactions** which focuses on building meaningful connections through in-person meetings, open communication, and shared experiences.

**5) Emotional dependency:** There's a risk of individuals developing unhealthy emotional dependence on AI companions, potentially hindering the development of real-life connections or creating unrealistic expectations for human relationships.

**6) Distorted perception of relationships:** AI companions often provide positive reinforcement and affirmation, which might create an idealized view of relationships that doesn't account for the inevitable complexities and imperfections of real human interaction.

**7) Bias in algorithms:** AI algorithms, if trained on biased data, can perpetuate societal stereotypes and create unfair advantages or disadvantages in matchmaking.

**8) Mental health impacts:** Relying solely on AI for emotional support might reinforce social avoidance or, in severe cases, be exploited by malicious entities, potentially leading to negative mental health outcomes.

### **Benefits of AI on Human Relations**

**1) Enhanced communication:** AI tools can act as virtual assistants, offering conversation starters, helping to draft messages, and even suggesting activities based on shared interests in dating apps. AI can also aid communication in existing relationships by providing insights into communication patterns and suggesting strategies to resolve conflict.

**2) Improved matchmaking:** Dating apps are utilizing AI to filter matches and suggest potential partners based on a wider range of factors, including personality traits and communication styles, beyond just basic preferences.

**3) Companionship and emotional support:** AI companions, like Gemini, Siri, Replika, are designed to simulate conversations and offer a sense of connection, potentially mitigating loneliness and social isolation. They can provide a non-judgmental space for users to express themselves and practice communication skills.

**4) Accessible relationship coaching:** AI-powered apps offer on-demand relationship advice, guidance on setting goals, building trust, and navigating challenges, acting as a convenient and potentially more affordable alternative to traditional therapy.

**5) Safety features in dating apps:** AI can help detect fake profiles and identify inappropriate behavior, contributing to a safer online dating environment.

### **Risks and Ethical Considerations of AI on Human Relations**

**1) Maintaining self-awareness:** Reflecting on our own preferences and needs, and being mindful of how AI might be influencing your interactions is very important.

**2) Exercise caution with data privacy:** Be aware of the data being collected by AI applications and adjusting our privacy settings accordingly is required.

**3) Considering diverse perspectives:** Remembering that AI algorithms can be biased, and actively seek out interactions with a diverse range of people.

**4) Supplement, don't substitute:** Using AI for convenience and support is ok, but relying on human connections for deep emotional intimacy, understanding, and personal growth is the basic need of every individual in society.

**5) Becoming it slave:** Today human is becoming its slave they are totally depend on it for their work, while AI is a tool to help them in their work ,it's not their master. But human being don't want to understand it.If human being not understand it then in future AI will become the master of their life.

**6) Human is going to loneliness:** By using AI on large scale human is going silently towards loneliness, while it's not good for their health or relationships. And this loneliness also becoming the reason of depression.

Ultimately, the future of AI in human relationships depends on responsible development, ethical considerations, and our ability to use these tools thoughtfully while valuing the irreplaceable depth of human connection.

### **Ethical Considerations**

The moral ramification of AI amity were a concern for the participants which include are like fairness, data privacy, transparency, accountability and prospective of misuse. Some of them had doubts that AI has abilities to manipulate people emotionally. Therefore to ensure ethical AI

development participants emphasized the importance of accountability and transparency around the boundaries of AI and the development of righteous frameworks to induce AI. According to Shaw et al. (2018), setting up ethical boundaries is pivotal to prevent people from leaning too heavily on AI for emotional attainment. Given that individuals who are at risk of loneliness or poor mental well-being can be especially vulnerable in settings, this is particularly consequential.

### **Societal Implications**

The results also encourage thinking about how AI companionship brings significant societal impacts on future of humanity, professionals and even ordinary people. Because of the advancement of technology, there will be high probability of people giving importance to interaction with AI over genuine human interaction. Turkle (2017) says: use of AI will be the annoyance of face-to-face, that the albinism in interpersonal interaction, and it makes the individuals should be easy and instantaneous, particularly when interacting with machines rather than taking up the complexity of human interfacing interactions. This paradigm shift raises many questions concerning how we define emotional satisfaction, companionship, and love in the digital world.

### **Conclusion**

The landscape of AI in education continues to evolve rapidly, with new tools and capabilities emerging regularly. These tools have been selected based on their proven effectiveness, user adoption, educational focus, and the real value they provide to end users. From comprehensive platforms like Magic School AI and Eklavvya to specialized tools like Scholarcy and Scite, each tool addresses specific needs in the educational ecosystem. The key to successful AI implementation in education is not just adopting the latest technology, but choosing tools that genuinely enhance learning outcomes, save time for educators, and provide meaningful support to students. As AI technology continues to advance, we can expect even more innovative solutions that will further transform the educational experience. When implementing these AI tools, remember to:

- Start with clear educational objectives
- Provide adequate training for users

- Monitor and evaluate effectiveness
- Maintain focus on student learning outcomes
- Ensure responsible and ethical use of AI

Thus, it is concluded that the future of education is being shaped by AI, and these tools represent the current state of the art in educational technology. AI is a powerful tool with the potential to reshape human relationships also. It offers opportunities for enhanced communication and support but, it's crucial to be mindful of its limitations and potential negative impacts. A balanced approach, where AI is used to augment and support human relationships rather than replace them, is essential for navigating the evolving landscape of human-AI interaction. By carefully selecting and implementing the right combination of AI tools, educators and learners can create more engaging, effective, and personalized learning experiences for all students.

### **Future Research Directions**

In view of this study's limitation, further research is required to determine the long-term efficacy of AI companionship on emotional well-being. Information on the impact of AI for emotional support on mental health may be collected by using longitudinal studies. Also, researcher may expand their sample size to different populations, such as people from different cultures, different age groups and diversities to find out how ideas about AI companionship vary in different settings. It may be open to understand the experiences of people with different levels of social support they are getting can also give insight into how AI affects or shrink human relationships. In summary, AI can provide some explanation for emotional help and friendship, but AI cannot replace the level and authenticity of human relationships. The results highlight the need to be accustomed to ethical concerns and AI's limitations about its application. Since society is struggling to understand the entangled web of AI in personal connection, it is necessary to follow a balanced approach that focuses on honest human relationships, yet utilises the fact that technology has to supply. Infinite conversation between developers, users, researchers will be necessary during the development of AI Companions, so as to have the probability to evolve in this manner to develop an AI companion for living humans.

### **Final Thoughts:**

In summary, as AI makes promising new developments in improving emotional support and companionship, one thing that AI is not capable of is replacing the living, breathing emotional depth of human relationships as we move on in our society, amidst this emerging terrain to select a balance which empowers the comprehension of the benefits of technology and thought of human relations. By engaging in an ongoing conversation about AI companionship's benevolence, psychology, and social effects, we can ensure that technology enriches human relationships and not replaces them. The destiny of companionship with the digital era is due to our capacity to behave ourselves with prudence and conscience in understanding these complexities at each turn, setting authentic connections first.

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