



Artificial Intelligence in Education: Rewards, Opportunities, and Transformative Potential

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Abstract:

The rapid integration of Artificial Intelligence (AI) across diverse fields such as education, healthcare, management, and finance has transformed human capabilities, enabling machines to acquire knowledge, make decisions, and exhibit creativity through algorithms like Generative Pre-trained Transformers (GPT). This paper evaluates the rewards of AI, particularly in the field of education. Key benefits include personalized learning, which tailors' instruction to individual needs, goals, and paces; 24/7 learning support that overcomes time and spatial barriers, reducing infrastructure costs; and AI-driven translation that breaks linguistic obstacles, promoting equitable access to global knowledge. Additionally, AI assists in research by streamlining literature reviews, identifying gaps, and managing citations, and enhances writing through drafting, editing, and proofreading tools. The analysis highlights how AI fosters inclusivity, efficiency, and creativity, ultimately, the paper underscores AI's potential to democratize education and innovation, advocating for balanced adoption to maximize rewards while mitigating risks.

Keywords: Artificial Intelligence, Personalized Learning, 24/7 Education Support, AI Translation, Research Assistance, Writing Tools, Educational Equity and Generative AI.

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Introduction

The emergence of AI (Artificial Intelligence) in the field of technology has unleashed fascinating results in fields of education, healthcare, management, finance etc. in short it can be said that there is no such field which has not been touched by AI. It is defined by Ertel as “the ability of machines to acquire knowledge and make decisions using algorithms” (3). With the advent of GPT (Generative Pre-trained Transformer), AI has been evolved to make writing like human being, take decision, to find research problem, provide solution for various problem which were earlier beyond the machine. “Generative AI now suggests that AI can also do something we previously considered uniquely human: it can seemingly exhibit creativity” (Slocombe and Liveley 28). They could only be done by human being with their intelligence now AI

can process those things and produce the outcome in a lightning-fast speed. The polished and refined results in a very short span of time by AI have led discussion in all the fields about creativity, reasoning and logic of human beings. The researcher has tried to evaluate the rewards and risks of AI in various fields.

Rewards of AI.

Personalized Learning

It is one of the greatest rewards of AI that it allows the learner to personalize his learning space. “Personalized learning prioritizes a clear understanding of the needs and goals of each individual student and the tailoring of instruction to address those needs and goals” (Pan et al 2). He can learn according to his own convenience of time and place with his own speed. The AI can prepare the

assignment on the basis of his learning skills and evaluate his assignments and provide feedback for the future improvement. “AI-driven systems can analyse student data to create adaptive learning pathways, enhancing educational effectiveness and engagement” (Katiyar et al 4). It customizes quizzes according to the level of the students and goes from simple question to an advanced stage keeping in mind the level of the students and interest. The most significant feature of Personalized Learning is that it adapts to the learner as per his learning skills not the learner has to adapt to the technology. It helps the beginner to understand the simple concept of any given subject gradually it moves to complex concept finally it leads to high order thinking skills.

24/7 Learning Support

AI provides the opportunity to the learners to avail its benefits 24 by 7. It resolves the problem of time and space; the learner can take the help of AI at any point of time from anywhere in order to enhance his learning skills. It will reduce the cost of infrastructure. It is beneficial for the learners who are employed and don't get time to attend the institution for learning. So, he can study according to his convenience and he is provided the feedback immediately. The learners can study from a remotest place late in the night where there is least possibility of good infrastructure and human resources.

Translation with AI

AI is at the disposal of learners in the language in which he prefers to learn. It is not possible in the traditional classroom. It breaks the barrier of language and it makes the availability of the text in the preferred language of the learners in a simple and lucid language. As UNESCO emphasizes, such technologies can strengthen mother-tongue instruction while simultaneously enabling participation in global academic discourse (UNESCO 24). It makes the availability of all the books and the research papers which are written in other languages are now readily available in the preferred language of learners on the tip of his fingers only they have to provide prompt to the Chatbots and the material will be available in no time. It not only converts the text from one language to another but also help to convert the text, diagram, hand written notes, and visual images into speech form and vice versa. “This convergence of modalities constitutes a major reward of multimodal AI, as it facilitates inclusive and interactive learning environments while reducing Knowledgeable Research (KR) 2026, vol.5, Issue.01

linguistic barriers in multilingual educational contexts” (Ertel 312). This system allows the learners to learn the most complicated concept in the adaptive mode with the help of video and narration. It helps to bring equitable education to one and all.

AI Assistance for Research

AI plays a pivotal role in assisting researchers with literature reviews by streamlining the process of identifying relevant studies and synthesizing existing knowledge. It enables researchers to pinpoint research gaps more efficiently, while also compiling comprehensive lists of available resources aligned with their chosen topic. Without AI, this endeavor can be labor-intensive and prone to oversights, such as overlooking prior work on the same subject, potentially leading to redundant efforts.

AI tools aggregate references from books, theses, and journal articles, facilitating a thorough critical analysis of the literature in the selected field. By consolidating a vast array of scholarly materials into a single accessible platform, AI empowers researchers to build a solid foundational understanding before advancing their own investigations. These resources prove invaluable in ensuring a seamless research process. Additionally, AI supports scholars in managing citations according to the latest formatting guidelines, such as MLA, APA, or Chicago styles, reducing errors and saving time.

AI helps the researchers in providing the review of literature. It assists the researcher to find the research gap easily. It also gives the information of all the resources available which the researcher has decided to pursue his research. In the absence of AI, this task becomes quite complicated and time consuming. Sometimes there is also a pitfall that the topic which the research has decided to pursue has already been researched. AI renders the list of books, theses and research papers in journals to the researcher to make critical review of the existing literature in the selected area of research. It brings the whole plethora of research in one place giving the opportunity to the researcher to have a sound knowledge of his selected topic before delving into his area of research. It provides the sources which are very helpful for the research to carry out his research journey smoothly. It also helps the research scholar to cite the works systematically as per the latest style sheets such as MLA and APA.

AI Assistance for Writing

It is helpful for writing the students who are not so good at the language in which they want to write essay, blog, articles and research paper. They can prepare the rough draft and with the help AI writing assistance can polish their writings. It is helpful for editing the write up and provide the facility for proofreading and provide suggestion for improvement. Gradually with the assistance of AI, the ideas of the researcher can disseminate into wider circle of academia. It also accelerates the writing materials which were earlier beyond imagination.

Core functionalities include advanced editing and proofreading. AI scans for grammatical errors (e.g., tense inconsistencies or article misuse), punctuation flaws, and stylistic issues, while suggesting improvements like synonym replacements to reduce repetition or paragraph restructuring for better flow. Tools like Grammarly use natural language processing (NLP) to understand context, ensuring suggestions align with intent. In research contexts, AI ensures compliance with academic norms, such as avoiding passive voice in reports or maintaining formal tone.

Conclusion

The emergence of AI as a versatile tool has profoundly impacted various domains, offering substantial rewards that enhance efficiency, accessibility, and creativity. As demonstrated, personalized learning adapts to individual learners' needs, enabling self-paced education and fostering higher-order thinking skills. The 24/7 support mechanism dismantles barriers of time and location, benefiting employed and remote individuals by minimizing infrastructure costs and providing instant feedback. AI's translation capabilities further promote inclusivity by converting content across languages and modalities, ensuring mother-tongue instruction and global participation. In research and writing, AI streamlines literature aggregation, gap identification, citation management, and content refinement, accelerating scholarly output and reducing labor-intensive tasks. While these rewards position AI as a catalyst for equitable education and innovation—echoing Ertel's definition of machine knowledge acquisition and Slocombe and Liveley's insights on AI creativity—they also invite scrutiny of risks, such as overreliance potentially diminishing human originality or introducing

biases. Moving forward, stakeholders must prioritize ethical frameworks and human-AI collaboration to harness AI's full potential, ensuring it augments rather than supplants human intelligence in building a knowledge-driven society.

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