

ARTIFICIAL INTELLIGENCE (AI) IN EDUCATION :USING AI TOOLS FOR TEACHING AND LEARNING PROCESS

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Abstract:

Changes in education require new ideas and creativity in how we learn. With the growth of Artificial Intelligence (AI) in education, it helps with everyday tasks like teaching and learning. The goal of this study is to explore how AI is used in education, especially in the classroom.

This research is based on library studies. The results show that AI is being used in various educational technologies, such as: Virtual Mentors Voice Assistants, like Google Assistant, Siri, and Cortana Smart Content Presentation Translators Personalized Learning, such as Ruangguru Educational Games Intelligent Tutoring Systems (ITS) or Intelligent Computer-Aided Instruction (ICAI).

AI is about creating machines that think like humans. In the future, many tasks teachers do, such as correcting work, taking attendance, giving tests, explaining lessons, and making reports, could be done by technology. This would give teachers more time to focus on creative and meaningful work that requires human intelligence, like building character and quality in students.

AI works in a systematic way, following human commands, while teachers bring new knowledge through their own thinking. So, even though AI is powerful, the intelligence of teachers is unmatched. AI is a result of human creativity and will never fully replace the role of teachers.

Keywords: Artificial Intelligence (AI), education, teaching and learning

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Introduction:

Technology has become an inseparable part of modern life, significantly transforming how people live, work, learn, and interact. One of the most notable advancements in recent years is artificial intelligence (AI), which mimics human behavior and has found applications across various fields, including education.

In today's world, technology has become an essential part of everyday life, deeply influencing how we live, work, learn, and interact with others. Among the most significant technological advancements is artificial intelligence (AI), a field that simulates human behavior and decision-making. AI is transforming various industries, including education, by making processes more efficient and personalizing learning experiences. From streamlining communication to enhancing productivity, technology is reshaping society in profound ways. However, as we embrace these innovations, it's important to consider both the benefits and challenges that come

with them, especially in areas like social interactions, biases in AI systems, and our growing dependence on technology

Artificial Intelligence (AI) is the process of modeling human thinking and designing machines to behave like humans, performing cognitive tasks such as learning automatically from programmed data and information. It is a branch of computer science focused on enabling machines (computers) to perform tasks that typically require human intelligence. AI is already integrated into everyday life, often without us realizing it, and many applications have leveraged its capabilities to provide significant advantages.

AI refers to machines that can think, evaluate actions, and make decisions similar to humans. This technology is being developed on a large scale to replicate and even take over tasks usually performed by people. The goal of AI is to facilitate human work by mimicking human behavior through programs and robots. Numerous digital platforms now incorporate AI as part of their functionality, making tasks easier and more efficient. Major technology companies like Amazon, Facebook, Microsoft, and Google have all implemented AI to enhance their services and operations.

The impact of Artificial Intelligence (AI) technology is becoming increasingly apparent across various sectors, including education. AI has already transformed educational curricula, particularly in fields such as technology, science, mathematics, and engineering. However, its influence is set to revolutionize the entire education system. AI plays a crucial role in improving efficiency and supporting various tasks, particularly in education. It enables educators to better understand and address the unique needs of their students. At the same time, students can learn in a way that suits their individual requirements, making the learning process smoother and more accessible.

Method:

Library research is used in this study. By depending on pre-existing theories and notions to be understood based on the works that led to the discussion, library research further highlights the strength of the study of existing sources and data. In this case, library research is the only way to address the research challenge, and field research and data may not be expected.

Findings and Discussion :

Findings Artificial intelligence has been widely applied to various educational technology platforms as follow: AI tools for mentor and coaching.

1. Jasper

Jasper is a powerful AI tool for writing, and it can help to generate content that is full of interesting information for those who want to upskill.

For instance, Jasper can write a full article that is tailored to a specific department or staff member, providing tips on how to improve their skills or work towards a more effective outcome for their business.

Jasper can also be used by mentors and coaches, taking a few of their ideas and putting them into coherent learning materials for the mentee or coachee. By using AI writing tools you can speed up the creation of personalised reading and learning materials. As long as you remember to edit them thoroughly after!

2. Movavi

Similarly, using a video content creation tool like Movavi, can help mentors, coaches and organisations create engaging learning materials.

Written content can certainly be dry and boring. With Movavi, it is easy to take content and ideas and create training videos that are specifically tailored to the mentees or coachees.

Something that would once have taken a long time and expertise to create is now quick and simple, and makes information easier to digest.

3. ManageBetter

ManageBetter is an AI tool for performance management that can be integrated into many aspects of a business and its workflows, from sales to HR.

As well as helping to organise teams, it has many different features that can help with coaching and mentoring. For instance, there is a feature called Review Builder that can help to create personal reviews for team members based on peer feedback, strengths, and weaknesses. These can help to identify areas to work on and training to take part in.

This tool may be useful across your business to better manage the performance and development of your people. Employed for mentoring and coaching, it could improve the impact of your programs.

4. ChatGPT

Probably the most talked about AI tool out there currently, ChatGPT is a conversational AI tool that can answer user questions in seconds.

While it's not specifically built for coaching and mentoring, with the right prompts help with a variety of coaching purposes. For example, staff can ask ChatGPT which courses they should take to improve a certain skill or to help create clear goals for mentoring and coaching.

ChatGPT is immensely powerful, but it's a tool that requires a lot of human input if you are going to get the best results.

5. Adaptiv Academy

Adaptiv Academy uses Ada, the AI-powered mentor that can answer career related questions and provide advice to users.

Ada has been built to ask specific questions to individuals who need a bit of coaching, mentoring and guidance. Ada then takes this information and uses it to provide advice on specific courses, skills that need to be worked on, and even career paths that may be most suitable for someone's skillsets.

Essentially, it is an AI mentor that can help people that aren't quite ready to find an in person mentor to work with them!

Cognii: Cognii uses machine learning algorithms to provide instant feedback on writing, including grammar, spelling, and content, helping students improve their writing . Cognii focuses on developing AI tools for higher education institutions and corporate training for organizations. The program is powered by a virtual assistant .

Cognii builds a cutting-edge assessment technology to provide an evaluation of essay-type answers in online learning platforms.

AI Smart Content Creation :

AI-powered smart content creation tools like Jasper.ai, Copy.ai, SurferSEO, Canva, InVideo, Synthesia, Murf, Descript, HubSpot, ChatGPT, Grammarly, Perplexity, and Presentation Translator help in generating, improving, and personalizing content. These tools benefit teachers and students by saving time, reducing costs, enhancing content quality, and offering scalability. They provide ready-made templates, support content ideation, and have user-friendly interfaces that make content creation easy. Smart Content is an AI-driven technology used in digital libraries to organize and share educational materials efficiently. It helps categorize books, provides structured search results, and recommends relevant resources. Additionally, it summarizes learning materials, from digital textbooks to personalized study interfaces, making education more accessible and tailored to individual needs.

AI Tools for Presentation:

I tested Curipod, PopAI, SlidesGo, Pitch, StoryD, and AiPPT using the same prompt: **“Generate slides for a college lecture on the history of artificial intelligence. Style: Informative and engaging, with clear visuals.”** The tools were evaluated based on content quality, time taken to generate output, number of slides, customization options, free export options (including watermarks), sharing via links, integration with Google Slides and PowerPoint, pre-embedded data visualization/icons/statistics, and overall user-friendliness. Each tool had its strengths and weaknesses, with some offering better customization and integration, while others prioritized speed and automation. The results highlighted how AI-powered slide generators can streamline lecture preparation, making it easier to create engaging and visually appealing presentations efficiently.

I compared various AI-powered presentation tools—Gamma, Presentations.ai, Curipod, PopAI, SlidesGo, Pitch, StoryD, Canva, and AiPPT—based on the number of slides generated, free export options, quality, and free credit limits. **Gamma and Presentations.ai** delivered the best quality, with Gamma allowing free export in PDF and PPT formats and offering 400 credits, where one 10-slide PPT costs 40 credits. Presentations.ai, though high in quality, does not support free export and provides 250 AI credits (one 10-slide PPT costs 50 credits). **Curipod and PopAI** generated more slides (15 and 18, respectively) but lacked free export options, with Curipod allowing one free lesson translation per month and PopAI granting one presentation per month. **SlidesGo and Pitch** provided good quality with free export options—SlidesGo supports PDF, MP4, and JPG, while Pitch allows PDF exports with unlimited presentations. **StoryD, Canva, and AiPPT** had average quality, with StoryD offering free exports in PDF, Canva, and PowerPoint, Canva supporting multiple formats but limiting users to 10 lifetime presentation generations, and AiPPT generating the highest number of slides (21) but only allowing three free presentations without export. Each tool has different strengths, making them suitable for different presentation needs.

AI tools for Education games:

Kwizie is the best tool to create gamified quiz tests from video with AI. Upload all major file types supported

Video and audio recordings , Presentations , Text documents. Custom video hosting integrations for businesses & Institutions.

AI-powered education tools like **ProProfs**, **Fillout**, **Quiz Wizard**, **SC Training**, **OpExams**, and **Questgen** streamline quiz creation and assessment for educators and businesses.

ProProfs is designed for business and education quizzes, offering over 15 question types, ready-to-use industry-specific questions, and automated grading and scoring. **Fillout** provides free, customizable quizzes that can be created from a single-word input, with extensive customization options and a dynamic quiz builder. **Quiz Wizard** supports multiple-choice questions (MCQs) and flashcards, available in English and French, allowing users to customize quizzes and export them to their platforms.

SC Training caters to safety-oriented businesses, automatically recording quiz responses and progress while incorporating gamified elements like leaderboards and rewards. **OpExams** is ideal for global educators, supporting multiple question types, tracking the history of created questions, and enabling exports in various file formats. **Questgen** specializes in high-volume quiz generation, offering MCQs, true/false, fill-in-the-blanks, and higher-order questions, with the ability to set difficulty levels and generate quizzes in just three steps. These AI tools enhance learning efficiency, engagement, and assessment accuracy.

Discussion:

AI is transforming corporate management, education, and content production by providing solutions that improve accessibility, efficiency, and customisation. With the help of platforms like Jasper, Copy.ai, and SurferSEO, users can produce excellent content more rapidly, which boosts engagement and SEO. AI expedites the creation of content, but human control is still necessary to guarantee accuracy and creativity. Similar to this, AI-powered mentorship programs like ManageBetter, Adaptiv Academy, and Movavi offer career counseling and individualized learning experiences. Although these tools can help mentors by automating feedback and organizing learning routes, mentoring still requires a human touch that cannot be replaced.

AI systems like Cognii, Quiz Wizard, and Questgen simplify grading, quiz development, and feedback in the fields of education and performance evaluation. They improve objectivity and save time, but they could not be as thorough as human examination, particularly when it comes to subjective evaluations. In the meantime, AI-powered presentation tools like Curipod, PopAI, and Gamma make it easier to prepare lectures by creating visually appealing, structured slides that enhance the learning experience. Even though AI can provide engaging presentations, customisation is still difficult, and teachers still need to make sure the content is unique and pertinent. Furthermore, AI is used by gamified learning systems such as Kwizie, ProProfs, and OpExams to make learning more dynamic and interesting. However, there is a risk of relying too much on AI-generated tests, which might not necessarily reflect deeper learning objectives.

In the end, integrating AI into these domains brings up significant issues on how to strike a balance between automation and human input. Though ethical issues like data privacy and content authenticity must be addressed, AI is a potent tool for efficiency and scalability. To ensure that learning and mentoring continue to be successful

and meaningful, AI should be used by businesses and educational institutions to supplement human expertise rather than to replace it.

Conclusion:

AI is unquestionably revolutionizing corporate management, education, and content creation by increasing productivity, engagement, and customisation. Artificial intelligence (AI) tools can automate activities, improve workflows, and yield insightful data, but they cannot completely replace human creativity, emotional intelligence, and critical thinking. The secret to successfully utilizing AI is striking a balance between automation and human involvement. In order to maintain original material, mentorship's human connection, and assessments that accurately reflect learning results, organizations and educational institutions must incorporate AI as a supplementary tool rather than a full replacement. We can properly utilize AI's promise to increase efficiency and create meaningful learning experiences by tackling ethical issues like data privacy, content authenticity, and AI bias.

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