

AI Tools: Bright and New Look to Classroom

Dr R Sujatha Rani

Professor

RK College of Engineering

Vijayawada, India

Sujatharani.r@gmail.com

DOI:10.53414/UIJES:2024.43.408

Abstract – This paper facilitates to reader how Artificial Intelligence (AI) is occupying the profession of teachers. To make class lively teacher need to train on how to use the AI tools. The usage of different AI tools gives modern look to class room. By training, usage of advanced technology can make traditional class room as modern class room so that teachers' life style will be changed. AI-powered tools allow teachers to allocate their time and power to more impactful activities like one-on-one interactions with college students, personalizing classes, and presenting centred remarks. As well as put forward real-time feedback, allowing teachers to provide immediate guidance and support to students. AI has the capability to revolutionize many areas and restructure the way we live and work. AI could resolve most of the international's problems and create new possibilities for innovation and increase but it also raises essential ethical and social questions.

Keywords – AI tools, Teachers, Students, Traditional, and Modern.

I. INTRODUCTION

Artificial Intelligence (AI) is the replication of human being intelligence progression by machines, especially computer systems. So, AI also named as Machine Intelligence that is intelligence verified by brilliant mind and intelligence of human being. Human beings have learning and problem solving performance. There are a number of different advanced approaches implementing machines, in contrast to the natural intelligence displayed by humans. The purpose of AI studies is to create systems that may perform obligations as a minimum in addition to, or ideally higher than, humans. Presently, AI tools are coming to the every minute to building AI systems. AI can be applied to a huge variety of regions, which include verbal language processing, photograph and video popularity, robotics, and greater. AI has the capability to revolutionize many areas and restructure the way we live and work, but it also raises essential ethical and social questions. To make the class room lively and effectively teachers are totally depending on technology AI is one of that. So that teachers can learn this machine learning for getting the best progress of students. To improve the performance of students, teachers must train how to use all these machine learning programmes.

By means of automating time-ingesting activities which include generating development reports or drafting emails to send to parents, AI-powered tools allow teachers to allocate their time and power to more impactful activities like one-on-one interactions with college students, personalizing classes, and presenting centred remarks. This has the ability to significantly improve the quality of education, as instructors can focus on fostering creativity, critical thinking, and trouble-shooting skills in their college students. AI can assist educators pick out areas of improvement in the study room and decorate the general gaining knowledge of surroundings. By using analyzing pupil performance information and instructor comments, AI can pinpoint regions in which college students are suffering and provide targeted interventions to assist them succeed. AI can hold students engaged in academic material and hold mastering interesting.

II. TRADITIONAL CLASS ROOM

A traditional classroom refers to a physical space within an educational institution where teaching and learning activities take place. It is characterized by face-to-face interaction between teachers and students. It's teacher centred class room. Therefore traditional classrooms typically have a designated physical space with desks or tables arranged in rows facing the front of the room where the teacher's desk or instructional area is located. There is a structured routine and format to the learning process. In traditional classrooms, often have a chalkboard or whiteboard where the teacher can write or draw information for the students. Class rooms are equipped with physical resources such as textbooks, handouts, and other supporting instructional materials by hand. Libraries and resource centers may supplement of these materials. In recent years, technology such as projectors and interactive whiteboards has been integrated into some traditional classrooms too. Students follow a set curriculum, attend classes regularly, and complete assignments and assessments in their own with teacher's support. Students in traditional classrooms have the opportunity to interact with their peers during class discussions, group activities, and other collaborative learning experiences.

While traditional classrooms have been the standard for education for many years, modern educational approaches increasingly incorporate technology and online resources. Blended learning, which combines traditional face-to-face instruction with online elements, is becoming more prevalent. Additionally, recent global events, such as the COVID-19 pandemic, have accelerated the adoption of online and remote learning, challenging the traditional classroom model in some contexts.

III. MODERN CLASS ROOM

A modern classroom represents an evolving approach to education that incorporates contemporary technologies, teaching methodologies, and a focus on student-centered learning. In modern classrooms, often feature advanced technology, such as interactive whiteboards, projectors, tablets, and computers. These tools are used to enhance teaching, engage students, and facilitate interactive and multimedia learning experiences. Unlike the traditional rows of desks, modern classrooms may have flexible seating arrangements that allow for collaboration and group work. This setup encourages a more interactive and dynamic learning environment to both teachers and students. After Covid-19, online learning platforms and learning management systems to organize course materials, assignments, and assessments. These platforms facilitate communication between students and teachers and provide a centralized location for resources.

Flipped Classrooms making students engage with instructional content outside of class through videos or online modules and use class time for interactive discussions, collaborative projects, and problem-solving. This approach emphasizes active learning during face-to-face sessions. Today's modern educational practices prioritize personalized learning experiences tailored to individual student needs and preferences. Adaptive learning technologies may be used to adjust the pace and content of instruction based on each student's progress. As a result using technology enables modern classrooms to connect with classrooms around the world. Students can engage in collaborative projects, video conferences, and other activities that promote cultural awareness and global perspectives.

Modern classrooms strive to be inclusive, recognizing and accommodating diverse learning styles, abilities, and backgrounds. Differentiated instruction and Universal Design for Learning (UDL) principles may be incorporated to address the needs of all students. Educational technology allows for the collection and analysis of data on student performance. Teachers can use this information to make informed decisions about instructional strategies, identify areas for improvement, and provide targeted support to individual students. Modern education places a strong emphasis on developing critical thinking skills, creativity, and problem-solving abilities. Activities and assessments are designed to promote higher-order thinking rather than rote memorization. With the intention that teachers are need to use AI Tools.

AI Tools to use in the classroom are ChatGPT, Perplexity, Curipod, Education Copilot, Yippity, Quillbot, PowerPoint Spkr. Coach, Grammarly, Canva Bkgrnd. Remover, YouTube Summary, slidesAI.io, Adobe Bkgrnd. Remove, Speechify, DALL-E, Canva Magic Write, gotFeedback, Conker, summarize.tech, Nolej, Random Face Generator, Otter, Bing Image Creator, Formative AI, Parlay Genie, DeepL Translator, PDF Chatbot, QuestionWell, Runway, Hello History, and etc. Some are paid and some are not paid versions are available in online.

IV. AI TOOLS: MODERN LOOK

ChatGPT is a generative AI chatbot. It interacts with you conversationally, the way a human would. It's trained with information from all over the internet and tons of other sources and it's been trained by humans to interact with you in an authentic way. When we ask ChatGPT a question or give it a request it will respond. There are lots of ways you can use it in the classroom. ChatGPT Plus gives general access to ChatGPT, even during peak times. It provides faster response times. Plus, it gives priority access to new features and improvements. Perplexity is another generative AI chatbot that lets users ask questions and get responses conversationally. It cites sources which are easily clickable to get more contexts and more information. Working of Perplexity is go to it then ask question or request something. We will see the concise version at first, but we can click to see a detailed response. It will also list the sources where it drew its information and other related topics. You can ask follow up questions, in a conversational manner like ChatGPT.

Curipod will generate an interactive slide deck for you in seconds, including polls, word clouds, open-ended questions, and a drawing tool. It works once you have a slide deck that seems to generate 9-12 slides on your topic, you can edit and adjust to suit your needs. Plus, you can add more slides on your own.

Education Copilot helping to AI generated templates for lesson plans, writing prompts educational handouts, student reports, project outlines and lots more. These are the tools to help save time and create content for the classroom. It works Open Copilot and choose one of its teachers tools, including informational handouts, lesson plans, and more. Add some

details on the content you want to cover. Then generate a product. If it isn't exactly what you want, adjust the information you inputted to create something else.

Yippity will convert any text or any website into a quiz automatically. It creates questions and answers based on the text submitted which can be copied and pasted into a flashcard app or quiz tool. It's limited to 10,000 characters. By Copy/paste text from notes or the URL to a webpage then submits, and it generates questions and answers. Then, use the share button to share the quiz with someone else. Whereas Quillbot helps you paraphrase or re-write text. Analyze lots of synonyms to find just the right word. Use it to help your fluency, vocabulary, tone, and style. Paste some text into its Paraphraser and ask it to rephrase the text. It will offer lots of options for reworking it.

PowerPoint Speaker Coach helps you prepare in private to give more effective presentations. Speaker coach evaluates your pacing, pitch, your use of filler words, informal speech, euphemisms, and culturally sensitive terms, and it detects when you're being overly wordy or are simply reading the text on a slide. After each rehearsal, you get a report that includes statistics and suggestions for improvements. It works to open presentation in PowerPoint for the web by sign in with your Microsoft account. On the Slide Show tab, select Rehearse with Coach. Select Get Started at the lower right when you are ready to begin rehearsing. On the other hand, SlidesAI.io is an add-on for Google Slides with the ability to work with PowerPoint. It can take any piece of text and transform it magically into visually appealing slides.

Grammarly is online writing assistant which helps compose bold, clear, mistake-free writing, checks grammar, spelling, style, tone, and more. It can work inside email client, productivity suites, and even social media. YouTube Summary quickly access the summary of the YouTube videos you are watching with OpenAI's ChatGPT AI technology. Use this extension to save time and learn quicker.

Adobe Image Background Remover removes image background with Adobe Express. Speechify is a text-to-speech tool that converts a text in a doc, PDF, webpage, or book to speech. Beyond its accessibility, it lets you consume content 2 to 3 times faster than reading. Plus, you can "read" by listening on the go. It will let you turn text into natural sounding voice in Google Chrome, Apple devices, and Android devices. DALL•E 2 is a new AI system that can create realistic images and art from a description in natural language. DALL•E 2 has learned the relationship between images and the text used to describe them.

gotFeedback helps teachers provide more individualized feedback to their students in a timely way. It's integrated into the gotLearning platform. It's modeled on the research that feedback needs to be goal-referenced, tangible and transparent, actionable, user-friendly, timely, ongoing, and consistent. Formative AI has been an assignment and quiz platform for a long time, allowing teachers to ask students a variety of question types. Now it has incorporated the power of ChatGPT to generate new standard-aligned questions and hints for learners.

Conker lets you create multiple-choice, read-and-respond, and fill-in-the-blank quizzes for students at a variety of levels on specific topics. Random Face Generator site uses AI to generate pictures of human faces. Use these images for writing prompts, as story starters, for student projects, etc. Bing Image Creator generates AI images based on your text. It uses DALL-E technology to generate images that you can share, save, or download. Some of the informative AI tools are given below table I:

Table I: AI Tools

| AI TOOL | Useful |
|--|--|
| CLASSPOINT AI | Instant quiz generation from Power Point Slides (question types based on Bloom Taxonomy) |
| POWERPOINT SPEAKER COACH | Power Point Presentation improvement, rehearsal report |
| SLIDESAI.IO | Instant text-to-slide generation (comes with pre-made templates and designs) |
| EDUCATION CO PILOT | Lesson planning, worksheet, handest and assessment generation |
| GRADESCOPE | Gradescope offers tools for grading written exams, homework assignments, and auto-grading submitted code. |
| FORMATIVE AI | Real-time feedback, assessment generation (diverse assessment types available) |
| RESEARCH RABBIT | Network research papers |
| CHAT PDF | Q & A in PDF |
| TRINKA | Corrects language (academic writing) |
| CONSENSUS (GOOGLE SEARCH + GOOGLE SCHOLAR) | Only scientific research paper |
| PLAG.AI | Repository of articles |
| RUNWAY | Generate videos, generate images, reimagine an image, erase things from videos, slow move a video, remove backgrounds, and more. |

| | |
|---------------------|--|
| TOME JASPER | Long-form content |
| COPY.AI | Copywriting |
| ANYWORD | Assisting you with writing |
| SUDOWRITE | Fiction |
| WRITESONIC - GPT- 4 | Content |
| RYTR | An affordable AI writer |
| GRAVITY WRITE | Scripts for content |
| COGNII | Cognii’s is a virtual learning assistant. Cognii uses machine learning algorithms to provide instant feedback on writing, including grammar, spelling, and content, helping students improve their writing. |
| DUOLINGO | Duolingo produces learning apps and provides language certification. Duolingo offers courses on music, math and over 40 languages, from popular languages such as English, French, and Spanish to less commonly studied languages such as Welsh, Irish, and Swahili. |
| COURSERA | Coursera offers online courses, certifications, and degrees in a variety of subjects. Coursera utilizes AI to revolutionize online education. With personalized course recommendations, adaptive learning paths, and automated assessments, students |
| CANVA | Canva is an online graphic design platform that is used to create social media graphics and presentations. Canva’s video background remover allows you to remove the background of any video with just the click of a button. |
| EDMODO | Edmodo was an educational technology platform for K-12 schools and teachers. Edmodo enabled teachers to share content, distribute quizzes and assignments, and manage communication with students, colleagues, and parents. |
| KALTURA | Kaltura offers a video management system, a video creation platform, and a video collaboration tool that allows educators to create, manage, and share video. |
| NEARPOD | Nearpod allows teachers to create dynamic and interactive lessons, monitor student progress in real-time, and provide personalized feedback. |

V. CONCLUSION

AI tools save time by making schedule tasks such as grading, scheduling, and data analysis, enabling educators and teachers to focus more on instructional activities. These tools make easy modified education by analyzing student records and providing customized assets and involvement. As well as put forward real-time feedback, allowing teachers to provide immediate guidance and support to students. AI could resolve most of the international’s problems and create new possibilities for innovation and increase. But, moral worries and regulations will also play a crucial position in shaping the destiny of AI. It's important to note that the definition of a modern classroom may vary based on the educational context, available resources, and cultural factors. The integration of technology and innovative teaching methods continues to evolve as education adapts to the changing needs of students and society. The future of AI in 2050 is vague if we only depending only on AI tools. However, it can be extra superior and incorporated into our daily lives.

REFERENCES

- [1] Kaal, W. A. (2021, July 5). How decentralized systems can upgrade AI. *International Journal of Artificial Intelligence and Machine Learning*, 1(1), 1. <https://doi.org/10.51483/ijaiml.1.1.2021.1-10>
- [2] Kafri, B. A. (2022, December). Critical thinking (CT) in sustainable higher education: Ensuring consistent CT perception-practice and identifying gaps between college instructors’ and students’ perceptions in advanced academic writing courses in the UAE. *Thinking Skills and Creativity*, 46, 101182. <https://doi.org/10.1016/j.tsc.2022.101182>
- [3] Shamuratov, J., & Alimbaev, M. (2022, May 30). The significance of technology in teaching 12. *Ренессанс В Парадигме Новацій Образования И Технологий В XXI Веке*, 1, 214–216. <https://doi.org/10.47689/innovations-in-edu-vol-iss1-pp214-216>
- [4] Ngo, T. T. A., Tran, T. T., An, G. K., & Nguyen, P. T. (2023, July 31). Students’ Perception Towards Learning Massive Open Online Courses on Coursera Platform: Benefits and Barriers. *International Journal of Emerging Technologies in Learning (IJET)*, 18(14), 4–23. <https://doi.org/10.3991/ijet.v18i14.39903>
- [5] Xashimov, B., & Khaydarova, D. (2023, April 11). Using and development of artificial intelligence on the process of accounting. *Новый Узбекистан: Успешный Международный Опыт Внедрения Международных Стандартов Финансовой Отчетности*, 1(5), 219–223. <https://doi.org/10.47689/stars.university-5-pp219-223>

- [6] Melander Bowden, H., & Svahn, J. (2020, October 22). Collaborative work on an online platform in video-mediated homework support. *Social Interaction. Video-Based Studies of Human Sociality*, 3(3). <https://doi.org/10.7146/si.v3i3.122600>
- [7] Guzzetta, C. A. (2019, October 21). Learning method preferences in a steel drum classroom: Exploring a learner-centered pedagogy through composition, peer teaching, and student-led Modern Band projects in a middle school setting. *International Journal of Music Education*, 38(2), 267–282. <https://doi.org/10.1177/0255761419877575>
- [8] Seytniyazova, G., & Nizamiddinova, S. (2022, May 30). Innovative ways of teaching research for students. *Ренессанс В Парадигме Новаций Образования И Технологий В XXI Веке*, 1, 189–191. <https://doi.org/10.47689/innovations-in-edu-vol-iss1-pp189-191>