# An Updated Analysis of the Application of Artificial Intelligence in Everyday Situations

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#### **Abstract**

Artificial Intelligence (AI) is an expanding field within computer science that specializes in the creation of intelligent machines capable of executing tasks traditionally performed by humans. The utilization of AI technology is progressively increasing across various sectors such as education, healthcare, banking, and transportation. The potential of AI lies in its ability to enhance efficiency, accuracy, and decision-making processes across different industries. We often use AI many times in our daily life without knowing it; for example, we have recently scrolled through a website page, watched a video and used a mobile phone. The voice control function, checking the inbox, or retrieving a word uses a complex computer algorithm that can be automatically learned from experience. AI systems have the capacity to acquire knowledge and enhance their performance through the utilization of machine learning algorithms. In recent years, AI has been increasingly used in various sectors. A detailed review of recent AI tools is discussed in this review to provide idea for students.

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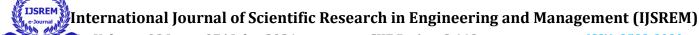
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#### Introduction

Artificial intelligence (AI) has emerged as a prevalent subject in the field of education in recent years, where students, scholars and educators are investigating the potential of AI technologies to enrich the process of teaching and learning [1]. The utilization of AI in education is broadening swiftly, ranging from intelligent tutoring systems offering personalized guidance to AI-fueled writing tools and virtual teaching assistants [2]. As AI progresses, it is essential to closely examine the current applications of these technologies in educational settings and their implications for the future of learning. The primary objective of this review is to deliver an updated and thorough analysis of the status of AI in educational contexts today.

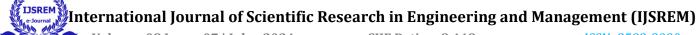


The current state of AI integration in education is rapidly evolving, with a focus on enhancing teaching and learning experiences. Initiatives in countries like India are emphasizing the importance of preparing students for an AI-driven future [3]. AI in Education (AIED) applications are being increasingly implemented to improve teaching, learning, and decision-making processes, showcasing the potential of AI in educational contexts (Kumar et al. 2023). AI-enabled platforms are being developed to personalize learning experiences, adapt content, and provide intelligent tutoring systems, aiming to improve student outcomes [5], [6].

AI integration in education has progressed significantly, with colleges adopting digital admissions and a focus on AI readiness to enhance learning across subjects, reflecting a growing trend towards technological advancement. Artificial intelligence (AI) is revolutionizing student learning experiences by personalizing education, providing real-time feedback, and creating immersive environments. AI technologies like machine learning and natural language processing analyze data to tailor learning experiences to individual needs (Alam 2023; Harry 2023; Neo et al. 2023). Additionally, AI enables adaptive learning, adjusting content based on student performance, pace, and learning style, ultimately enhancing engagement and outcomes (Alam 2023; Neo et al. 2023).

Artificial Intelligence (AI) can personalize learning experiences for students by analyzing vast amounts of data, adapting to individual needs, and providing tailored learning experiences, ultimately leading to improved student outcomes and increased engagement [9]. By leveraging effective Supervised Machine Learning (ML) techniques, AI can adaptively schedule assignments and educational activities based on students' needs, preferences and background, maximizing their overall grade and satisfaction rate [10]. Additionally, AI-assisted systems have been developed for personalized learning, adaptive testing, intelligent tutoring systems, and learning analytics, aiming to adapt the learning experience to the individual needs of each student and improve student learning outcomes [6]. Furthermore, personalized mobile education systems utilizing AI and user-centered design principles can offer tailored learning content and recommendations based on individual preferences, catering to the diverse needs of students, showcasing the potential of AI-driven personalization in enhancing the learning experience for students [11].

The rapid advancement of artificial intelligence (AI) has permeated various sectors, and education is no exception. The integration of AI in educational contexts promises to revolutionize traditional teaching and learning paradigms. This examination delves into the contemporary applications of AI in education, exploring its potential to enhance personalized learning, streamline administrative processes, and provide intelligent tutoring. AI technologies, such as machine learning, natural language processing and data analytics, are being harnessed to create more engaging and effective learning experiences. Personalized learning platforms adapt to individual student needs, providing tailored content and feedback. Intelligent tutoring systems offer real-time assistance and support, while AI-driven administrative tools automate routine tasks, allowing educators to focus on instruction. Artificial Intelligence (AI) is revolutionizing education by offering personalized learning experiences, adaptive testing capabilities, and intelligent tutoring systems, as highlighted in multiple research papers [12], [13], [14]. Despite these advancements, the utilization of AI in education also presents several challenges. Concerns about data privacy, the risk of algorithmic bias, and the need for significant investment in technological infrastructure must be addressed. Additionally, ensuring equitable access to AI tools and resources is crucial to prevent further disparities in educational opportunities. This paper aims to provide an up-to-date examination of AI's role in educational contexts, highlighting both the potential benefits and the challenges that accompany its integration. By exploring current applications and future prospects, this study seeks to contribute to the ongoing discourse on how AI can be effectively and ethically utilized to enhance educational outcomes.



#### **Discussion**

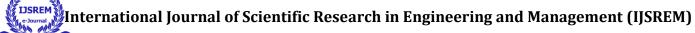
By leveraging AI in education, students benefit from personalized, efficient, and engaging learning experiences that cater to their unique needs and abilities. AI, specifically Chatbots like MERLIN, enhances student learning by providing scaffolding support during independent online learning, increasing motivation, improving understanding, and fostering engagement in online courses [15].

FLAIRS AI Education special track serves as a platform for educators to share resources and innovations, advancing the quality of AI education globally [16]. While AI shows promise in revolutionizing education, further research is essential to understand its full capabilities and address ethical considerations [6].

S.No	NAME	APPLICATIONS	ACTION-LINKS
1	Jenni AI	Jenni AI is developed to help writers create original content, correct grammatical errors, add citations, and avoid plagiarism. For PhD students, researchers, and academic writers, this AI writing assistant claims to reduce your research and writing time.	https://jenni.ai/
2	QuillBot.	QuillBot is an online writing platform with a bunch of tools aimed at elevating and perfecting your writing. QuillBot paraphrases, summarizes, checks for grammar and plagiarism, translates, outlines, creates citations, and sets you up for success in school, work, and your personal life.	https://quillbot.com/
4	Gradescope.	Gradescope allows you to grade paper-based exams, quizzes, bubble sheets, and homework.	https://fireflies.ai/
5	Otter.ai	Otter AI is a specialized artificial intelligence platform designed to transcribe spoken words into written text with remarkable accuracy.	https://otter.ai/
6	Botrush.ai	Botrush AI is a sophisticated technology created with the aim of augmenting and expanding the visibility of users and brands on the Instagram platform.	https://botrush.io/
7	Tutor ai	AI algorithms analyze student performance data, identifying strengths, weaknesses, and learning styles to create customized learning plans.	https://tutorai.me/
8	scale ai	Scale has pioneered in the data labeling industry by combining AI-based techniques with human-in-the-loop, delivering labeled data at unprecedented quality, scalability, and efficiency.	https://scale.com/
9	Originality.ai	Originality.ai is one of the most accurate AI detection tools, helping you separate human-written content from content generated by an AI model. It also comes with other key features, including a plagiarism checker, fact checker, and readability checker.	https://originality.ai/



10	DeepBrain	Deepbrain AI is a video generator that creates realistic generative AI videos from just a script. With Deepbrain AI's AI Studios, anyone can make a text to video in 5 minutes using photo-realistic AI avatars.	https://www.deepbrain.io/
11	Booth ai	Booth.AI emerges as an innovative solution that harnesses artificial intelligence to revolutionize product photography. This platform empowers users to create professional-grade product photos without needing physical samples, making the process faster, more affordable, and highly creative.	https://www.booth.ai/
12	slides ai	AI-Powered tool that transforms any text into visually appealing slides, saving you hours of time and effort.	https://www.slidesai.i o/
19	Prove	Prove is used to reduce fraud and improve consumer experiences and it is the world's most accurate identity verification and authentication platform.	https://casperlabs.io/p roducts/prove-ai
20	Trend Micro	This platform delivers a powerful range of advanced threat defense techniques optimized for environments like AWS, Microsoft, and Google, and central visibility for better, faster detection and response.	https://www.trendmic ro.com/
21	Symantec	Symantec Endpoint Protection is a cybersecurity solution that protects desktops, laptops, and servers throughout your network against malware, viruses, and other risks and vulnerabilities.	https://symantec- enterprise- blogs.security.com/
22	Exscientia	Exscientia's platform uses generative AI models and the scalability and flexibility of AWS to securely, quickly and efficiently design drug candidates that aim to better target specific diseases and patients, with the goal of accelerating early drug development at a lower cost.	https://www.exscientia.com/
23	Standigm	Standigm ASKTM identifies target proteins to modulate diseases, driving first-in-class drug development. Standigm's AI-driven lead optimization ensures your compounds meet all necessary properties efficiently. Basically it is a AI drug discovery.	https://www.standigm .com/
24	Genesis Therapeutics	It is unifying AI and biotechnology to discover novel and breakthrough treatments for patients with severe and devastating conditions.	https://genesistherape utics.ai/
25	Unlearn.AI	Unlearn's AI analyzes patient health records to build a model for each participant in a clinical trial, then use the digital doppelganger to predict how each	https://www.unlearn. ai/



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		patient would fare if given the placebo treatment in the trial.	
26	Benevolent AI	BenevolentAI combines the power of computational medicine and advanced AI with the principles of open systems and cloud computing to transform the way drugs are designed, developed, tested and brought to market.	https://www.benevole nt.com/
27	Insilico Medicine	Insilico Medicine offers an artificial intelligence platform dedicated to drug development for both cancer and age-related illnesses. The comprehensive pipeline provided by the company includes drug exploration, analysis of clinical trials, and digital medicine applications.	https://insilico.com/
28	Leap AI	It allows users to add AI features to their apps, such as generating images from text using a pre-trained model, fine-tuning models to generate images with their own data, and editing existing images using AI.	https://leapai.ai/en/ho me/
29	Creatify AI	It offers tools for generating ideas, automating design processes, and producing engaging visuals and written content	https://creatify.ai/
30	CustomGPT.ai	It is an intelligent AI assistant designed to enhance your website's user experience	https://customgpt.ai/
31	Highperformr.a	Highperformr is a powerful social media management software with a very user-friendly analytics and publishing tool designed specifically for Twitter.	https://www.highperf ormr.ai/
32	Formula Bot	It helps users convert text into formulas, analysis, data visualizations, advanced data models and more.	https://formulabot.co m/
33	FormulasHQ	It is an AI tool that helps users master Excel and Google Sheets with its advanced features and improves productivity	https://formulashq.co m/
34	GPT Excel	It is an AI tool for generating and explaining Excel formulas, SQL queries, Apps Script,VBA scripts and generates Excel templates for data analysis and automation in various fields.	https://gptexcel.uk/
35	Numerous.ai	Numerous.ai offers a straightforward, robust, and economical option for integrating ChatGPT into Google Sheets and Excel.	https://numerous.ai/
36	Gigasheet	Gigasheet is a big data spreadsheet platform built for processing large datasets. It combines the power of big data with the familiar spreadsheet interface to help you analyze and organize datasets, regardless of the file size.	https://www.gigashee t.com/



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37	Arcwise AI	It is an spreadsheet add-on designed to streamline data analysis processes by connecting spreadsheets to large datasets from data warehouses. This eliminates the need to export and import CSVs, enabling powerful data analysis directly within familiar spreadsheet tools	https://arcwise.app/
38	Well Me Right	It helps to find personalized virtual health coaching and support from vetted experts in diet, nutrition, supplements, beauty, fitness, mindfulness, and more wellness areas.	https://www.wellmeri ght.com/
39	Regie.ai	Regie.ai scales content production, equipping our sellers to engage customers at every stage of the deal cycle. It also offers revenue leaders predictable campaign performance.	https://www.regie.ai/
40	Drift	It is an AI-powered buyer engagement platform that automatically listens, understands, and learns from buyers to create the most personalized experiences possible.	https://www.drift.co m/
41	HubSpot	It can use AI assistants to create or refine pages, blog posts, knowledge base articles, calls-to-actions (CTAs), social posts, and marketing or sales emails.	https://www.hubspot. com/
42	Doctrina AI	It is an educational platform powered by artificial intelligence, designed to improve the learning experiences of students and children. It offers interactive and personalized content, adapted to the individual needs of each user.	https://www.doctrina. ai/
43	Octobot Cloud	OctoBot uses AI models to detect and predict upcoming movements in the crypto market, identifying profit opportunities.	https://www.octobot.
44	Outplay	Outplay's Conversation Intelligence leverages the power of Generative AI to analyse conversations, extracts actionable customer insights that can significantly elevate sales performance.	https://outplayhq.com
45	Bit.ai	It is a document collaboration tool that assist individuals and teams in centralizing and organizing their workspace by creating documents,notes and wikis with advanced design options,robust search etc	https://bit.ai/
47	Dashly	Dashly AI SDR conducts personalized communication with each lead based on CDP data and their current funnel stage.	https://www.dashly.io
48	Deepgram's	Deepgram's solutions are designed to serve multiple use cases and roles. Developers can utilize their technology to create voice applications, enable	https://deepgram.com



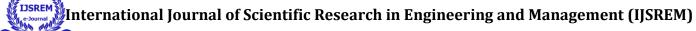
I	İ	speech-to-text functionality, and perform language	[
		understanding tasks.	
49	Apollo	Apollo AI generates subject lines, copy, and personalized openers for your emails.	https://www.apollo.ai
50	Seamless.AI	Seamless.AI is a revolutionary all-in-one sales automation and lead generation software.	https://seamless.ai/
51	Krisp AI	Improves digital voice communication through audio cleansing, noise cancelation, accent localization, and call transcription and summarization.	https://krisp.ai/
52	Air AI	It's designed to handle complex, human-like interactions across a vast array of applications, from customer service to sales, and is backed by robust technology and positive user feedback.	https://www.air.ai/
53	Harvey AI	Harvey on Azure provides a legal assistant, workflow and research automation, and virtual data rooms.	https://www.harvey.a  i/
54	Ferret AI	Ferret is analysing an image, identifying specific regions or objects based on user queries, and providing detailed information about these regions or objects.	https://www.ferret.ai/
55	Getimg.ai	Getimg is a straightforward REST API that interacts with Stable Diffusion-based models to generate and edit images.	https://getimg.ai/
56	Detangle AI	Detangle takes every block in the document and simplifies in, removing mind-numbing legalese so you can easily understand what each paragraph means.	https://lexmachina.co m/
57	Spellbook AI	Effortlessly generate novel provisions and complete segments in accordance with the content of your contractual arrangement.	https://www.spellboo k.legal/
58	Squirrel AI	Squirrel AI uses artificial intelligence to tailor lesson plans to each individual student.	https://squirrelai.com/
59	DISCO AI	DISCO's auto-tagging AI can instantly tag tens of thousands of tracks with industry standard, descriptive information.	https://www.disco.co/ ai
60	Perplexity AI	Perplexity provides instant summaries of any article or webpage, sharing the information most relevant to your search.	https://www.perplexit y.ai/
61	RationalAi	The rationale utilizes in-context learning to produce analyses that are more precise and logically connected.	https://www.rationala i.co/



62	DooDle.AI	This tool uses AI to transform simple sketches or doodles into intricate, detailed, and visually appealing pieces of art.	https://www.doodle-ai.com/
63	Socrat.ai	Socrat can be used in a variety of ways in the classroom, including Socratic dialogs, language learning activities, and personalized tutoring sessions.	https://socrat.ai/
64	Notion AI	Notion AI can help you quickly transform existing content into something more suited to the task at hand, without the need for manual reconfiguring.	https://www.notion.s o/product/ai
65	Signum.AI	Signum.AI can handle diverse and unstructured content, diving deep into the context to gather valuable data from various sources like social media, podcasts, job boards, and more.	https://signum.ai/
66	Scite.ai	Scite.ai is a tool that primarily centers its attention on assessing the credibility of scientific assertions.	https://scite.ai/
67	TeachMateAI	TeachMateAI is designed to help teachers successfully streamline everyday tasks from lesson planning to risk assessments and to create engaging and bespoke curriculum content.	https://teachmateai.co m/
68	Tavily AI	Tavily provides developers with the capability to incorporate personalized fields, including context and restricting response tokens, in order to enhance the search efficiency for Language Model Models (LLMs).	https://tavily.com/
69	Elicit AI	Elicit employs linguistic models to facilitate the automation of research processes, such as segments of a literature review.	https://elicit.com/
70	ClassPoint AI	ClassPoint AI is an AI-powered quiz generator in PowerPoint. It comes with ClassPoint add-on for PowerPoint that can instantly transform your lessons into interactive presentation quizzes.	https://www.classpoi nt.io/ai
71	Cramly.ai	Cramly AI is a powerful writing tool that helps students and writers to write content faster. It can solve assignments, generate academic essays, write blog posts, and various types of content.	https://www.cramly.a i/
72	Beautiful.ai	Beautiful.ai is a web-based presentation creator facilitates the seamless generation of presentations that are guaranteed to captivate your audience.	https://www.beautiful .ai/
73	HIX.AI	Produce text-oriented material, such as news articles, evaluations of Amazon products, and	https://hix.ai/



		written pieces, or enrich your current written content.	
74	Scribe.ai	Scribe AI transforms your procedures into visual, sequential instructions, allowing you to direct your attention towards tasks of significance.	https://scribe.ai/
75	ShortlyAI	Artificial Intelligence (AI) has the capability to generate meta descriptions, social media posts, snippets for blog articles, and various other forms of content.	https://www.shortlyai .com/
76	Notta	Notta is an AI-based voice-to-text transcription service that supports 104 languages. You can get automated transcription by recording audio and uploading your files.	https://www.notta.ai/
77	Motion AI	Motion is a calendar scheduling and to-do list app that uses AI to help you streamline your schedule.	https://www.motion.a i/
78	Eduaide.ai	It is a system for lesson development in which teachers utilize the power of large language models to create revisable and remixable educational resources more quickly and more efficiently than before possible.	https://www.eduaide. ai/
79	Conker AI	With Conker, one can generate quizzes, fill-in-the- blank activities, true/false questions, and more that can be easily exported to a Google Form.	https://www.conker.a i/
80	Socrative AI	It streamlines your workflow, making the assessment creation process more personalized, adaptive, and time-efficient.	https://www.socrative .com/
81	Shutterstock AI	Shutterstock users can generate, license, and download new images using Shutterstock AI-generated content capabilities, which will compensate our contributors through the Contributor Fund	https://www.shutterst ock.com/ai
82	Tinq.ai	Tinq.ai is a simple natural language processing tool. It helps you easily implement text analysis within your projects.	https://tinq.ai/
83	Typli.ai	Typli can finish your sentences, create headings, produce lists, and provide related quotes, making the content generation process faster and more efficient.	https://typli.ai/
84	WordAI	WordAi is an AI-powered text rewriting tool that helps users create high-quality, unique content.	https://wordai.com/
85	Dubdub	Dubdub.ai creates the most realistic, human-like and contextually-aware translations, providing video and audio content creators to make their content available in over 40 languages.	https://www.dubdub. ai/



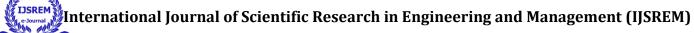
86	AuraticAI	AuraticAI's AI Voiceover feature effortlessly converts your written content into natural-sounding, expressive audio in a variety of languages and accents.	https://auraticai.com/
87	DigitalFirst.AI	Digital First AI focuses specifically on helping marketing experts with their campaigns, and as a result, the types of content you can create are all focused on marketing.	https://www.digitalfir st.ai/
88	Sider AI	Easily translate texts, webpages, and documents into over 50 languages. It also includes a grammar checker to ensure your translations are not just accurate but also grammatically correct.	https://sider.ai/
89	ContentBot.ai	ContentBot.ai is an AI-powered content toolkit that lets you automate content creation, build workflows, and import files in just a few clicks.	https://contentbot.ai/
90	Creaitor AI	It is designed specifically for marketers, with a wide variety of tools that are designed to help generate marketing content that resonates with your audience and saves you valuable time.	https://www.creaitor.
91	ParagraphAI	Instantly generates replies to a message or email, correct all your grammar mistakes with a single tap, without the need for tedious word-by-word oversight	https://www.paragrap hai.com/
92	Texta AI	It offers an AI-powered article writer and content generation tools that will help users to produce a copy for your blog, website, social media and more.	https://texta.ai/
93	PhotoAI	AI Image processing technology to unblur, restore, and enhance images you want, refresh your old images, and get memories back.	https://photoai.com/
94	Logo AI	AI works by learning, so instead of simply choosing what elements to put into your logo, you are often given choices	https://www.logoai.c om/
95	Hairstyle AI	Machine learning algorithms to analyze photos and faces to understand what hairstyles would suit you best.	https://www.hairstyleai.com/
96	ToolPilot AI	ToolPilot.ai is your ultimate directory for discovering the best AI tools to boost your productivity, creativity, and efficiency.	https://www.toolpilot. ai/
97	Leena AI	Leena AI centralizes knowledge access by integrating with popular knowledge bases, ensuring employees receive personalized, accurate, and upto-date information with concise responses.	https://leena.ai/
98	Leapsome AI	Leapsome AI offers leaders an easy way to transform their thoughts into constructive	https://www.leapsom e.com/



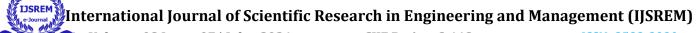
		comments enriched with ideas on improvement initiatives, giving their team members more impactful takeaways.	
99	Browse AI	Anyone can use Browse AI to extract or monitor data from any website.	https://www.browse.a i/
100	DimeADozen. AI	An artificial intelligence platform that allows entrepreneurs and business owners to instantly validate new business ideas.	https://www.dimeado zen.ai/
101	Juicebox	Juicebox is an AI recruitment platform enabling companies to find top talent.	https://juicebox.ai/
102	Glean	Create no-code custom generative AI which is used as a note taking tool designed to improve learning and productivity.	https://www.glean.ai/
103	Glider AI	Glider AI Recruitment Software is used by enterprises and staffing agencies for hiring process automation and candidate tracking using AI-powered conversational chatbots,	https://glider.ai/
104	Streetbeat	Streetbeat is an AI-powered advisor for creating custom, automated investment portfolios.	https://streetbeat.com/
105	Camp	AI-powered platform which enables teams to collaborate in a shared workspace with access to premium AI capabilities, simplifying the integration of AI into business processes.	https://www.aicamp.a i/
106	Invideo AI	It provides tools for automatic video generation, text-to-video capabilities, and AI-powered features for enhancing videos with effects, animations, and transitions.	https://invideo.io/
107	Consensus	Consensus is an AI-powered search engine designed specifically for research purposes which provides evidence-based answers at an accelerated pace, solving the problem of content overload that can overwhelm knowledge workers, researchers, and students.	https://consensus.app/
108	PDF.ai	PDF AI is an AI-powered tool that enables users to upload a PDF and interact with it through conversation. It reads and comprehends the document, providing responses to plain language questions	https://pdf.ai/
109	Julius AI	Julius AI is an intelligent data analyst tool that interprets, analyzes, and visualizes complex data in an intuitive, user-friendly manner.	https://julius.ai/
110	Freepik Ai	Use AI to create and edit images. Pikaso gives you a variety of tools to help you generate and edit astonishing images.	https://www.freepik.c om/ai/
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111	Slidesgo	It provides users with ready-to-use templates that can be customized to create visually appealing and effective presentations quickly.	https://slidesgo.com/a  i
112	Storyboard Hero	Storyboard Hero is an innovative AI tool crafted to streamline the process of storyboarding for video agencies, filmmakers, and content creators.	https://storyboardhero _ai/
113	Slidespilot	SlidesPilot helps you create well-structured and customized templates for your presentations by simply entering your topic in seconds.	https://www.slidespil ot.com/
114	CarbonCopy.Pr o	It is an AI writer tool that helps marketers, bloggers, social media managers, and startups generate copy, product descriptions and more.	https://carboncopy.pr o/
115	Quickads.ai	Quickads.ai uses Generative AI to deliver customized, visually stunning ads.	https://www.quickads _ai/
116	Echofox	It is used as personal transcriber in whatsapp which quickly find crucial information from your voice messages.	https://echofox.pro/
117	HeyGen	HeyGen is an online tool that helps you generate or repurpose videos using AI technologies include digital avatars, text-to-video, and video translations.	https://www.heygen.c om/
118	AdCopy	AdCopy.ai allows users to create or rewrite ads in any language that drives more clicks and conversions for their business.	https://adcopy.ai/
119	Sofabrain	Our AI-powered interior design app and virtual staging tool transforms empty interiors into beautifully staged homes.	https://sofabrain.com/
120	PaceAI	PaceAI serves as the AI companion for non-technical IT professionals, enabling them to generate, analyze, and simplify technical documentation and saves valuable time for collaboration with stakeholders.	https://paceai.co/
121	Sapling.ai	Sapling is an AI-powered writing assistant that enhances productivity by providing real-time suggestions and autocomplete features for emails and documents.	https://sapling.ai/
122	Originality.ai	Originality.ai is an AI-powered platform designed to detect and prevent plagiarism in written content.	https://originality.ai/
123	Winston AI	It is beneficial to improve customer service efficiency by providing tools for automating responses, analyzing customer interactions, and enhancing user experiences.	https://gowinston.ai/
124	Otter.ai	It is an AI-powered transcription and note-taking tool that automatically converts spoken language into written text and also provides real-time	https://otter.ai/



		transcription for meetings, lectures and interviews	
		making it easy to capture and organize notes.	
125	Blaze.ai	It provides tools for analyzing data, improving decision-making, and enhancing operational efficiency which is beneficial for organizations seeking to leverage AI to drive growth and streamline workflows.	https://www.blaze.ai/
126	Imagine AI	It provides tools for creating unique images, artwork, and designs, catering to artists, designers, and content creators to enhance their visual projects.	https://www.imagine. art/
127	Kua.ai	It offers tools for project management, task automation, and communication, helping users streamline workflows and improve efficiency.	https://www.kua.ai/
128	ViralKit	ViralKit is an AI-powered marketing platform designed to help users create and optimize viral content for social media.	https://viralkit.com/
129	AVCLabs AI	It is a AI based tool that helps users stabilize ,enhance and upscale video quality,deblur footage frames, sharpen details and remove imperfections from the video.	https://www.avclabs. com/
130	Junia AI	Junia.ai is your AI-powered writing companion, specially designed to craft long, SEO-optimized blog posts that capture your audience's attention	https://www.junia.ai/
131	Artsmart.ai	Artsmart.ai is an AI tool that generates artwork based on text or image prompts in a variety of styles, including	https://artsmart.ai/
132	Smudge.ai	It enables designers and marketers to create stunning graphics, edit images, and streamline their creative processes with advanced algorithms.	https://smudge.ai/
133	Ssemble	Ssemble is an AI tool that edits your original videos into high-retention shorts.	https://www.ssemble. com/
134	Coachvox AI	Coachvox AI offers personalized coaching solutions for skill development and performance improvement. It offers tailored feedback, progress tracking, and interactive tools, making it beneficial for individuals and teams focused on personal development, training, and performance enhancement.	https://coachvox.ai/
135	Vondy AI	It is an AI-powered creative tool that has many interesting features to assist creators and developers. Some of the features include writing code ,creating art ,crafting the perfect travel itinerary etc .	https://www.vondy.c om/



136	Fireflies.ai	Fireflies.ai is an AI Note taker that joins your meetings and automatically records, transcribes, summarizes and analyzes all your meetings.	https://fireflies.ai/
137	OpenArt	OpenArt uses advanced AI to interpret your textual prompts and convert them into visual art.	https://openart.ai/
138	Smili Media	Transform any videos into some spicy, juicy and perfect short content clip, optimized for social media in less than minutes.	https://www.smilime dia.com/
139	GAJIX	GAJIX is a powerful AI learning assistant that analyze text and provide insights, summaries and learning tools on any subjects or webpage.	https://gajix.com/
140	Plus AI	Plus AI facilitates document creation and collaboration by automating content generation. It offers features such as smart suggestions and templates, helping users efficiently produce high-quality documents, presentations, and marketing materials.	https://plus.ai/
141	Decktopus	Decktopus is a simple tool that helps you create and automatically aligns your text ,images, icons and colors to create a harmonious and appealing design.	https://www.decktopu s.com/
142	Lovo AI	Lovo AI is a text-to-speech platform that provides lifelike voiceover generation using advanced AI technology. It offers a wide range of voices and languages, allowing users to create high-quality audio for videos, podcasts, and presentations.	https://lovo.ai/
143	Murf AI	Murf AI is a Text-to-speech artificial intelligence technology-based tool that can generate voice based on a given Text.	https://murf.ai/
144	AudioNotes.ai	AudioNotes.ai is an app that turns your spoken words into organized text summaries using smart AI, making activities like note-taking, brainstorming etc	https://audionotes.ai/
145	Stack AI	It provides tools and services to streamline workflows and enhance productivity. With stack AI any organization can build and deploy custom AI Assistants and Workflow Automations in minutes.	https://www.stack-ai.com/
146	Dante AI	Dante AI is an advanced AI tool designed for generating creative writing, narrative content, stories and scripts.	https://www.dante- ai.com/
147	Jasper.ai	Jasper is the AI platform that helps tech, publishing, insurance and other businesses scale up marketing content like blog articles, social media posts, sales emails & more.	https://www.jasper.ai/



148	Writesonic	Writesonic is an AI-powered writing assistant that helps users generate high-quality content quickly. It offers tools for creating blog posts, marketing copy, social media content, product descriptions, and more	https://writesonic.co m/
149	Playground AI	Playground AI is a platform that allows users to experiment with and create AI-generated art and text	https://playground.co m/
150	Boomy	Boomy uses AI and music automation systems to generate and personalize songs at our user's direction.	https://boomy.com/

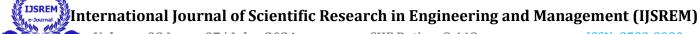
Table 1. A detailed list of Artificial Intelligence (AI) tools

Moreover, AI facilitates the development of AI-based tools like multimodal solutions that analyze audio and text features to predict workshop outcomes, reducing instructor workload and enhancing student learning experiences through automated feedback mechanisms [17]. **Table. 1** gives detailed list of AIs used in recent days.

An initial AI teaching assistant robots, known as Happy Numbers, are already operational in classrooms in the USA. As emphasized by Finn in the 1960s, technology represents "more than an invention – more than machines. It is a process and a way of thinking" (Fin, 1960, p. 6). The integration of AIEd (Artificial intelligence in education) necessitates a critical understanding of AI ethics and demands interdisciplinary and transdisciplinary collaborations in extensive, long-term research endeavors.

The utilization of AI in educational contexts has been a topic of interest at international conferences, highlighting the need for effective integration into current educational systems to optimize results [5]. Furthermore, the theoretical foundations of AI in higher education emphasize the importance of ethical principles, governance, transparency, and inclusiveness in AI applications, as well as the identification of strengths, weaknesses, opportunities, and risks in utilizing AI in educational settings [18]. Recent examination of the utilization of artificial intelligence in educational contexts reveals the rapid integration of AI technologies to enhance teaching, learning, and decision-making process. While AI offers personalized learning experiences, adaptive testing capabilities, and intelligent tutoring systems, challenges such as ethical concerns and potential drawbacks like reduced human interaction in classrooms need to be addressed for successful implementation [14]. The 21st International Conference on Artificial Intelligence in Education highlighted the growing field of AI in educational technologies, emphasizing the need for educators to effectively harness AI's pedagogical advantages and understand its impact on teaching and learning in higher education [5]. Additionally, a bibliometric analysis of AI applications in contemporary education underscores the revolutionizing impact of AI on student learning, with teachers adapting methodologies to leverage new technologies and educational models based on technology gaining support in schools and universities [19]. This comprehensive analysis underscores the ongoing exploration and development of AI technologies to enhance teaching, learning, and decision-making processes in the digital age.

AI integration in education is a rapidly evolving field with significant potential benefits and challenges. The utilization of AI in education, as highlighted in various studies (Abdulmunem 2023; Karan and Angadi 2023; Sharma and Sharma 2023; Kumar et al. 2023), encompasses personalized learning, intelligent tutoring systems, natural language processing, gamification, and ethical considerations. AI offers the opportunity to tailor learning experiences



to individual students' needs, provide personalized feedback and support, facilitate language learning, enhance student engagement through gamification, and address ethical concerns such as privacy and bias. The systematic integration of AI into the education system can simplify teaching tasks, improve teacher efficiency, anticipate diverse learner requirements, and provide valuable tools for assessment and performance enhancement, ultimately revolutionizing the future of education.

Artificial Intelligence (AI) is revolutionizing student learning experiences by enabling personalized and adaptive learning approaches. AI technologies, such as machine learning and natural language processing, analyze data to tailor educational content to individual needs and learning styles [7], [9]. This personalization leads to improved student outcomes, increased engagement, and enhanced educational experiences. Additionally, AI facilitates intelligent tutoring systems, chatbots, and automated grading, saving teachers time and providing accurate feedback [7]. Virtual and augmented reality (VR/AR) technologies create immersive learning environments, while adaptive learning adjusts content based on student progress and learning pace. By leveraging AI in education, institutions can offer flexible, interactive, and engaging learning experiences that cater to the diverse needs of students, ultimately enhancing the overall quality of education [8]. The gap between AI development and its application in education, emphasizing the need for teacher preparation and philosophical alignment to integrate AI effectively in educational contexts [21].

Al's impact on primary and secondary education assessments, focusing on predicting performance, automating evaluations, using educational robots, and enhancing class attractiveness, showcasing AI's potential in education. The potential of AI in enhancing educational practices, particularly in evaluating student performance at lower educational levels [22]. The current application of Artificial Intelligence in education, highlighting Al's advancements in instructional techniques, specialist systems, collaborative robots, and smart learning environments. AI tools such as specialist system applications, collaborative robots, and intelligent AI assistants have transformed the educational environment, offering a range of innovative solutions. This kind of research indicates a positive outlook for the future of AI in education, with the potential to further enhance educational practices and student assessments at primary and secondary levels. By leveraging neural networks, natural language processing, and educational robots, AI has shown promise in predicting student performance, automating evaluations, and improving the objectivity of assessments. Overall, the integration of AI in education holds great promise for revolutionizing teaching methods, enhancing student learning experiences, and advancing the field of education in the digital age [23]. The results of this examination underscore the transformative potential of AI in educational contexts. AI's ability to personalize learning, enhance administrative efficiency, and provide intelligent tutoring represents a significant advancement in educational technology. The benefits observed, including improved student engagement and learning outcomes, highlight the positive impact of AI on education. Data privacy concerns must be carefully managed to protect student information.

Investments in AI infrastructure and professional development for educators are necessary to fully realize AI's potential. Future research should focus on the long-term effects of AI integration in education, examining how these technologies impact student learning trajectories and educational equity. Additionally, developing ethical guidelines for AI use in education will be crucial in addressing concerns about bias and fairness. The utilization of AI in educational contexts presents a promising avenue for enhancing teaching and learning. By addressing the associated challenges and ensuring equitable access, AI can play a pivotal role in shaping the future of education, making it more personalized, efficient, and effective.



#### Conclusion

AI technology is rapidly progressing, with expectations of significant growth in its application in education in the foreseeable future. The potential of AI technologies in education is considerable, particularly in enhancing access to learning opportunities, expanding personalized learning experiences, and refining techniques and approaches to achieve desired learning outcomes. The utilization of artificial intelligence (AI) in educational contexts is rapidly evolving, offering transformative potential for teaching and learning. This examination has highlighted the significant benefits of AI integration, including personalized learning experiences, enhanced administrative efficiency, and the provision of intelligent tutoring systems. The ability of AI to adapt to individual student needs, automate routine tasks, and provide real-time support underscores its potential to revolutionize education. The deployment of AI in education is not without its challenges. Issues such as data privacy, algorithmic bias, and the need for substantial investment in infrastructure must be carefully managed. Ensuring equitable access to AI technologies is paramount to prevent exacerbating existing disparities in educational opportunities. Addressing these challenges requires a collaborative effort from educators, policymakers, and technologists. The future research should focus on the longterm impacts of AI in education, particularly concerning student learning trajectories and educational equity. Developing ethical guidelines for AI use will be essential to ensure fairness and transparency. By navigating these challenges and leveraging AI's potential, education systems can create more personalized, efficient, and effective learning environments. Finally, AI holds promise for significantly enhancing educational contexts. By addressing the associated challenges and ensuring inclusive access, AI can play a pivotal role in shaping the future of education. This study underscores the importance of continued exploration and responsible implementation of AI to maximize its benefits while mitigating its risks.

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