USING AI TECHNOLOGY IN ENGLISH LANGUAGE LEARNING

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Abstract: Using AI and technology in English language learning has revolutionised traditional teaching methods, offering students and educators innovative tools to enhance learning efficiency. AI-powered applications provide personalised learning experiences by analysing individual progress and adapting lessons accordingly. Speech recognition technology helps learners improve pronunciation, while chatbots and virtual assistants offer real-time conversational practice. Machine translation tools assist in understanding and learning new vocabulary, making language acquisition more accessible.

Key words: Technology, Language Learning, Machine Learning, Personalised Learning, Speech Recognition, Chatbots, Virtual Assistants, Online Platforms.

Introduction. The integration of artificial intelligence (AI) and technology in English language learning has transformed traditional educational approaches, making learning more accessible, efficient, and personalised. With advancements in AI, learners can now benefit from intelligent language applications, virtual tutors, speech recognition software, and automated assessments that adapt to individual needs. These tools not only enhance vocabulary acquisition and grammar comprehension but also improve pronunciation and conversational skills through interactive and immersive experiences. Technology-driven learning platforms provide instant feedback, allowing students to track their progress and

focus on areas that require improvement. AI-powered chatbots and virtual assistants enable real-time communication practice, helping learners build confidence in speaking and writing. Moreover, adaptive learning systems use machine learning algorithms to customise lesson plans, ensuring that students receive content suited to their proficiency level and learning pace. As AI continues to evolve, its role in language education will become even more significant, offering innovative ways to enhance language proficiency and communication skills for learners worldwide. From automated essay grading to personalised study plans, AI is shaping the future of English language learning, making it more engaging, interactive, and effective. However, while AI offers numerous benefits, the role of human educators remains essential in providing guidance, motivation, and cultural context in language learning.

Methods. AI plays a significant role in transforming English language learning by providing personalised, adaptive, and interactive educational experiences. It uses advanced technologies such as machine learning, natural language processing (NLP), and speech recognition to improve how learners acquire and practice English. One of the key ways AI enhances language learning is through personalised learning paths. Unlike traditional methods that follow a fixed curriculum, AI adapts lessons to an individual's proficiency level, strengths, and weaknesses. By analysing a learner's progress, AI-powered platforms like Duolingo and Busuu adjust exercises and review sessions to match their needs, ensuring more effective retention and skill development. Another major role AI plays is in real-time feedback and error correction. AI-powered writing tools such as Grammarly and Quillbot analyse grammar, vocabulary, and sentence structure instantly, providing corrections and suggestions that help learners improve their writing skills. Similarly, speech recognition technology in apps like Elsa Speak and Google Assistant assesses pronunciation and fluency, offering immediate feedback to enhance speaking skills. These tools create an efficient learning process where learners can recognise and correct their mistakes without waiting for a teacher's input. Conversational AI assistants and chatbots also contribute significantly to language learning by simulating real-life communication. AI-driven chatbots like ChatGPT or Google Bard enable learners to practice English conversations at any time, providing interactive and engaging language practice. These chatbots respond naturally to user input, helping learners improve their grammar, vocabulary, and sentence structure in a conversational setting. Additionally, AI voice assistants like Siri and Alexa allow learners to practice listening and speaking through voice commands, making language learning more accessible and practical. Another crucial aspect of AI in language learning is its role in adaptive learning systems. AI-driven platforms analyse user behavior, track progress, and suggest personalised study plans to improve efficiency. These systems help learners focus on areas where they struggle the most, ensuring targeted practice rather than a one-size-fits-all approach. Moreover, gamification techniques powered by AI make language learning more engaging. Features like points, badges, leaderboards, and interactive quizzes encourage learners to stay motivated and continue practising regularly. AI also benefits teachers by automating administrative tasks and providing data-driven insights. Teachers can use AI to grade assignments, track student progress, and generate personalised lesson plans. AI-powered educational tools help identify common mistakes among students, allowing teachers to tailor their instruction accordingly. This technology not only reduces the workload for educators but also enhances the overall learning experience for students. Additionally, AI-driven real-time translation and transcription tools like Google Translate and DeepL play a significant role in breaking language barriers. Learners can instantly translate texts, listen to correct pronunciations, and understand contextual meanings, making self-study more effective. AI-powered subtitles and speech-to-text applications also assist learners in

improving their listening comprehension by converting spoken English into text. The role of AI in language learning is further expanding through immersive experiences such as virtual reality (VR) and augmented reality (AR). AI-driven VR simulations allow learners to engage in real-world scenarios, such as ordering food at a restaurant or attending a job interview, improving their confidence in using English in practical situations. AR applications enhance interactive learning by overlaying translations, definitions, and pronunciation guides onto real-world objects, making vocabulary acquisition more engaging. Despite its many advantages, AI in language learning also has limitations. While AI can provide valuable feedback, it lacks the emotional intelligence and creativity of human teachers, making it essential to balance AI tools with traditional instruction. Additionally, AI systems may sometimes provide incorrect or unnatural language suggestions, which can lead to misunderstandings if not reviewed properly. Privacy concerns and the need for reliable internet access are other challenges that must be addressed to ensure AI-driven language learning is accessible to all. Overall, AI plays a transformative role in English language learning by making education more personalised, interactive, and efficient. From chatbots and speech recognition to adaptive learning and real-time feedback, AI provides learners with numerous opportunities to practice and improve their English skills. While AI should not replace human teachers, its integration into language learning offers a powerful supplement that enhances both self-study and classroom experiences. The future of AI in language education looks promising, with continuous advancements in NLP, machine learning, and immersive learning technologies set to further revolutionize the way people acquire new languages

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