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THE IMPACT OF ARTIFICIAL INTELLIGENCE ON FOREIGN LANGUAGE LEARNING

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ABSTRACT: *This study examines the transformative role of Artificial Intelligence in foreign language learning, focusing on how AI-driven tools enhance learners' linguistic competence, motivation, and independent learning skills. The research highlights the effectiveness of intelligent tutoring systems, automated feedback platforms, speech recognition technologies, and adaptive learning models in supporting personalized instruction. Furthermore, the study explores how AI facilitates real-time error correction, pronunciation improvement, and vocabulary expansion while also identifying potential challenges such as over-reliance on technology and reduced human interaction. The findings demonstrate that the integration of AI into foreign language education significantly enhances learning efficiency, accessibility, and learner engagement.*

Keywords: *Artificial Intelligence, Foreign Language Learning, Adaptive Learning, Intelligent Tutoring Systems, Language Acquisition, Digital Pedagogy, Speech Recognition.*

INTRODUCTION

In recent years, the rapid development of Artificial Intelligence (AI) has significantly transformed the field of education, particularly in foreign language learning. AI technologies, including intelligent tutoring systems, adaptive learning platforms, speech recognition software, and automated feedback tools, have provided innovative approaches to enhance language acquisition processes. Traditional language learning methods often face limitations such as insufficient personalized feedback, lack of real-time practice, and challenges in addressing individual learner needs. AI addresses these issues by offering tailored learning

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experiences, immediate error correction, and interactive language exercises, which contribute to higher learner engagement and motivation.

Moreover, AI facilitates the integration of multimedia resources, such as interactive dialogues, pronunciation exercises, and context-based vocabulary training, creating a more immersive and effective learning environment. While AI offers numerous advantages, it also raises concerns regarding over-reliance on technology, potential reduction in human interaction, and the need for educators to adapt their teaching strategies. Understanding the role and potential of AI in foreign language education is therefore essential for both teachers and learners, as it allows for the development of more efficient, accessible, and personalized learning pathways.

MAIN BODY

At the beginning of the English lesson, the teacher opens Duolingo Classroom Mode, and the platform instantly displays each learner's daily progress. The classroom comes alive as students watch their avatars move forward or slow down depending on their streak. The teacher asks everyone to complete a speaking task. Students hold their tablets and repeat short sentences like *"I would like to order breakfast"* or *"I am travelling to London tomorrow."* The AI listens carefully, highlights mispronounced words, and replays them with clear mouth-movement animation. Learners laugh when the owl mascot wiggles its eyebrows after a correct answer, and they try even harder when the platform challenges them with a slightly more complex phrase.

The teacher then switches the class to Rosetta Stone Live Coaching. The platform loads an immersive scenario where students find themselves inside a virtual airport. The virtual assistant asks questions such as *"Where is your boarding pass?"* or *"Can you describe your luggage?"* Learners respond aloud, and the system evaluates fluency and clarity in real time. One student struggles to say *"security checkpoint,"* so the AI turns the phrase into a slow-motion audio clip, allowing the class to repeat it together. The environment feels like a real airport, complete with

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announcements and background noise, turning pronunciation practice into a realistic communication challenge.

The next phase of the lesson takes place on BBC Learning English AI Studio. Here, students watch a short interactive news clip about a cultural festival. When the video pauses, the AI asks comprehension questions: *"Why were the streets crowded?"* or *"What did the visitors enjoy most?"* Students answer into their microphones, and the platform instantly generates transcripts of their speech.

The AI highlights missing articles, verb tense mistakes, and weak vocabulary choices. Without waiting for teacher correction, students click on suggested improvements and re-record their answers with more confidence. The classroom becomes a studio where learners practice real-world English while interacting with authentic content.

The teacher moves the class into a writing-focused activity using Grammarly Classroom. Students open their laptops and begin writing a short paragraph titled *"My Perfect Weekend."* As they type, the AI quietly underlines awkward phrasing, cohesion problems, and unclear sentences. A student writes, *"My weekend is very good because I go friend home,"* and Grammarly pops up with clearer alternatives.

The learner chooses *"I had a great weekend because I visited my friend's house,"* and smiles as the sentence becomes smoother. Students compare their improvements on screen, turning writing correction into a collaborative moment rather than a stressful task.

To end the lesson, the teacher launches ELSA Speak Classroom Edition, and the room shifts into intense pronunciation training. Students plug in their earphones and practice dialogues such as ordering food, describing interests, or making travel arrangements. The app visualizes their pronunciation accuracy with colored waveforms and gives instant feedback like *"Your /r/ sound needs more vibration"* or *"Try lifting your tongue slightly for the /l/ sound."* Some students repeat the same sentence several times until the waveform turns green. Others challenge themselves with higher-level dialogues, competing gently to achieve the clearest pronunciation.

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By the end of the session, every learner has practiced speaking, listening, writing, pronunciation, and communication through real, engaging, AI-powered platforms. The classroom atmosphere feels energetic, modern, and student-centered, where technology does not replace the teacher but amplifies every learning opportunity. Each platform has provided a unique environment, allowing learners to speak more confidently, write more clearly, and interact more naturally with the English language.

AI-Enhanced pronunciation feedback table (Creative and enriched version):

AI Live Feedback	**Articulation Guidance**	**Visual and Sensory Support**	**Interactive Practice Scene**	**Expected Learner Transformation**
Your /r/ sound could carry more vibration and warmth	Keep your tongue loose and let the sound roll lightly	A soft red wave pulses on the screen to show how the vibration should feel	The AI asks you to read a short story where every sentence begins with the /r/ sound, turning it into a rhythm exercise	A confident, warm, rolling /r/ that feels natural in all positions
Try lifting your tongue a little higher for the /l/ sound	Touch the upper ridge gently, like a feather landing	The AI mouth animation glows when your tongue reaches the correct height	You repeat lines from a dialogue between two characters whose names contain many /l/ sounds	A clear and gentle /l/ that blends smoothly into speech

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AI Live Feedback	Articulation Guidance	Visual and Sensory Support	Interactive Practice Scene	Expected Learner Transformation
Your /s/ sound is sharp; soften the airflow	Reduce tongue tension and keep air steady	A glowing air-flow trail shows how much breath you release	You whisper "soft snake sentences" while the AI reacts like a moving snake on screen	A smooth, balanced /s/ free of hiss or harshness
Make your /th/ sound clearer by letting your tongue come forward	Allow the tip of the tongue to rest between the teeth	A light appears exactly where the tongue should be	You role-play as a weather reporter, practicing words like "thunder," "thick," "breathe," in a playful AI simulation	A crisp, clean, effortless /th/ sound
Let the vowel in "seat" be longer and steadier	Stretch the vowel gently without changing pitch	A length bar increases as the vowel becomes stable	You read AI-generated tongue-twisters designed to stretch long vowels creatively	Longer, more stable vowel reproduction
Lower your pitch slightly at the end of "really"	Allow your voice to fall like a slide	A pitch line on the screen drops softly to guide melody	The AI plays a mini-game where you "draw" intonation	Natural sentence-final intonation

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AI Live Feedback	Articulation Guidance	Visual and Sensory Support	Interactive Practice Scene	Expected Learner Transformation
			patterns with your voice	

CONCLUSION

The integration of Artificial Intelligence into foreign language learning has reshaped traditional pedagogical practices and created new opportunities for personalized, interactive, and highly efficient language acquisition.

Throughout the study, it became evident that AI-driven tools provide learners with immediate feedback, adaptive learning paths, and authentic communicative environments that closely resemble real-life language use. These technologies not only support the development of pronunciation, vocabulary, grammar, and fluency but also strengthen learner autonomy, motivation, and long-term retention.

AI-enabled platforms simulate real communication scenarios, analyze learner performance through voice recognition and natural language processing, and adjust activities according to individual proficiency levels. As a result, foreign language learners can engage in meaningful practice without the limitations of time, classroom size, or teacher availability. Moreover, AI enhances the role of educators by helping them monitor progress, identify learning gaps, and design more targeted instruction based on data-driven insights.

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