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TECHNOLOGY INTEGRATION IN SPEAKING SKILL DEVELOPMENT: THE USE OF MOBILE APPS AND AI TOOLS

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Abstract: The integration of mobile applications and Artificial Intelligence (AI) tools has significantly enhanced the development of speaking skills in language learning. These technologies provide learners with interactive, personalized, and flexible platforms that offer real-time feedback on pronunciation, fluency, and grammar. Mobile tools such as Duolingo, ELSA Speak, and AI-driven tools like Yoodli enable continuous practice and self-assessment, enhancing learner confidence and communication abilities. Studies show that users experience up to 85% improvement in speaking proficiency after regular engagement with AI-powered language tools. Despite challenges including accent recognition limitations and unequal access to technology, the adoption of mobile and AI tools continues to grow globally, with the market projected to exceed \$40 billion by 2027. This paper explores the current applications, effectiveness, and future prospects of mobile and AI technologies in facilitating speaking skill development, emphasizing their crucial role in modern language education.

Keywords: Speaking skill development, technology integration, mobile applications, artificial intelligence, language learning, pronunciation feedback, AI tools, language education.

Аннотация: Интеграция мобильных приложений и инструментов искусственного интеллекта (ИИ) значительно повысила эффективность развития навыков говорения при изучении языка. Эти технологии предоставляют обучающимся интерактивные, персонализированные и гибкие платформы, которые обеспечивают обратную связь в режиме реального времени по произношению, беглости речи и грамматике. Мобильные приложения, такие как Duolingo, ELSA Speak, и ИИ-инструменты, например Yoodli, позволяют непрерывно практиковаться и самостоятельно оценивать прогресс, что улучшает уверенность учащихся и коммуникативные навыки. Исследования показывают, что пользователи достигают до 85% улучшения разговорных навыков при регулярном использовании ИИ-технологий для изучения языка. Несмотря на проблемы, связанные с распознаванием акцентов и неравным доступом к технологиям, использование мобильных и ИИ-инструментов продолжает расти во всем мире, при этом рынок ожидается превысить 40 миллиардов долларов к 2027 году. В статье





рассматриваются современные приложения, эффективность и перспективы мобильных и ИИ-технологий в развитии навыков говорения, подчеркивая их важную роль в современной языковой педагогике.

Ключевые слова: Развитие навыков говорения, интеграция технологий, мобильные приложения, искусственный интеллект, изучение языков, обратная связь по произношению, ИИ-инструменты, языковое образование.

Introduction. The development of speaking skills is a fundamental component of language acquisition, important for effective communication in academic, professional, and social contexts. By speaking we can convey information to other people but without it we can face misunderstandings, culture shock and language barriers. Traditional speaking practice, often constrained by limited classroom time and lack of individualized feedback, poses challenges to learners worldwide. Furthermore traditional speaking practice limits students' critical and logical thinking, confidence. The rapid advancement of mobile technology and Artificial Intelligence (AI) offers promising solutions to these challenges by enabling personalized, accessible, and interactive language learning environments. Mobile applications integrated with AI algorithms have transformed language education by providing real-time, adaptive feedback on pronunciation, intonation, grammar, and fluency. Platforms such as Duolingo, ELSA Speak, and Yoodli employ natural language processing (NLP) and speech recognition technologies, allowing learners to engage in self-paced speaking practice outside traditional classroom settings¹. Therefore these technologies are increasingly rapid speaking skills. Students can use apps anytime they want and using these apps they can make friends where live foreign country. According to recent market analysis, the global market for AI in education is projected to reach USD 40.1 billion by 2027, growing at a compound annual growth rate (CAGR) of approximately 45.1% from 2021². This growth reflects the increasing adoption of AI-powered educational tools, particularly in language learning sectors. Empirical research indicates that AI-enabled mobile apps significantly improve learners' speaking proficiency by enabling frequent practice and providing corrective feedback that is otherwise difficult to obtain. For example, a study conducted by Frontiers in Education (2025) reported an 85% increase in learner confidence and speaking accuracy after regular use of AI-driven speaking tools. Moreover, AI's ability to customize

¹ Technology Integration in Language Education: Trends and Challenges. Language Learning & Technology, 26(2), 1-15.

² Chen, L., & Lee, J. (2024). AI-powered Pronunciation Feedback in Language Learning Apps. Journal of Educational Technology, 15(2), 120-135.





learning paths based on individual performance fosters more efficient and targeted skill development. Despite these advantages, challenges remain. Technical limitations, such as inaccuracies in accent recognition and the risk of over-dependence on technology, must be addressed to optimize learning outcomes. Additionally, digital divides restrict equitable access to these innovations, particularly in low-resource settings. Nevertheless, ongoing improvements in AI and mobile technologies suggest a future where speaking skill development is increasingly democratized and effective.

This paper aims to explore the current state of mobile and AI tool integration in speaking skill development, analyze their pedagogical effectiveness, and forecast future trends shaping language education.

Conclusion. In summary, the integration of mobile applications and AI tools represents a transformative advancement in speaking skill development within language education. These technologies address longstanding challenges by offering personalized, flexible, and interactive learning experiences that enhance pronunciation, fluency, and learner confidence. While empirical evidence supports the effectiveness of AI-driven platforms in improving speaking proficiency, ongoing efforts are necessary to overcome limitations related to accent recognition and equitable access. As AI technology continues to evolve and the market for educational applications expands rapidly, the future of language learning is poised to become more accessible and tailored to individual learner needs, ultimately democratizing speaking skill acquisition on a global scale.

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