

## DEVELOPING ENGLISH SPEAKING SKILLS THROUGH ARTIFICIAL INTELLIGENCE

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**Abstract:** The rapid advancement of artificial intelligence (AI) is revolutionizing various sectors, and education is no exception. Among the most promising areas where AI is making a significant impact is language learning, especially in developing English speaking skills. This approach promises efficiency, personalization, and accessibility that traditional teaching methods often lack. Learning to speak English fluently is regarded as an essential skill in today's globalized world. However, learners face numerous challenges such as a lack of access to proficient native speakers, limited practice opportunities, traditional teaching methods focusing more on grammar and writing and less on speaking, fear of making mistakes, and low confidence levels. In this context, AI is emerging as a powerful facilitator to tackle these obstacles effectively.

**Key words:** Artificial Intelligence, English Speaking, Language Learning, Pronunciation, Speech Recognition, Personalized Learning, Conversational Bots, Real-time Feedback, Accessibility, Interactive Practice.

**Аннотация:** Стремительное развитие искусственного интеллекта (ИИ) совершает революцию в различных секторах, и образование не является исключением. Одной из наиболее перспективных областей, где ИИ оказывает значительное влияние, является изучение языков, особенно развитие навыков разговорной речи на английском языке. Такой подход обещает эффективность, персонализацию и доступность, которых часто не хватает традиционным методам обучения. В современном глобализованном мире свободное владение английским языком считается важнейшим навыком. Однако учащиеся сталкиваются с многочисленными проблемами, такими как отсутствие доступа к опытным носителям языка, ограниченные возможности для практики, традиционные методы обучения, больше ориентированные на грамматику и письмо и меньше на разговорную речь, боязнь совершать ошибки и низкий уровень уверенности в себе. В этом контексте ИИ становится мощным инструментом для эффективного преодоления этих препятствий.

**Ключевые слова:** Искусственный интеллект, разговорный английский, изучение языков, произношение, распознавание речи, персонализированное

обучение, разговорные боты, обратная связь в реальном времени, доступность, интерактивная практика.

**Annotatsiya:** Sun'iy intellektning (AI) jadal rivojlanishi turli sohalarda inqilob qilmoqda va ta'lim ham bundan mustasno emas. Sun'iy intellekt sezilarli ta'sir ko'rsatayotgan eng istiqbolli yo'nalishlar qatorida til o'rganish, ayniqsa ingliz tilida so'zlashish ko'nikmalarini rivojlantirish bor. Ushbu yondashuv an'anaviy o'qitish usullari ko'pincha etishmayotgan samaradorlik, shaxsiylashtirish va foydalanish imkoniyatini va'da qiladi. Ingliz tilida ravon gapirishni o'rganish bugungi globallashgan dunyoda muhim mahorat sifatida qabul qilinadi. Shu bilan birga, o'quvchilar ona tilida so'zlashuvchilarga kirish imkoniyati yo'qligi, cheklangan amaliyot imkoniyatlari, grammatika va yozishga ko'proq e'tibor qaratuvchi an'anaviy o'qitish usullari va kamroq gapirish, xato qilishdan qo'rqish va past ishonch darajalari kabi ko'plab muammolarga duch kelishadi. Shu nuqtai nazardan, sun'iy intellekt ushbu to'siqlarni samarali hal qilish uchun kuchli yordamchi sifatida paydo bo'ladi.

**Kalit so'zlar:** Sun'iy intellekt, ingliz tilida so'zlash, tilni o'rganish, talaffuz, nutqni aniqlash, shaxsiylashtirilgan o'rganish, suhbat botlari, real vaqt rejimida fikr-mulohazalar, mavjudlik, interaktiv amaliyot.

## INTRODUCTION

AI-powered language applications and platforms are engineered to provide real-time feedback, adaptive learning experiences, and interactive speaking practice. They can simulate realistic conversations, help learners practice pronunciation, intonation, and comprehension, and identify individual learner weaknesses. For instance, conversational bots powered by natural language processing (NLP) algorithms can engage learners in lifelike dialogues, correct pronunciations instantly, and provide personalized suggestions for improvement. One important advantage of using AI in spoken English learning is the accessibility it offers. Learners from any part of the world can access high-quality language training without the need to travel or pay for expensive tutoring sessions. AI applications are available around the clock, enabling learners to practice speaking at any convenient time. This overcomes the problem of time-zone differences and makes it possible for individuals with busy schedules or residing in remote regions to practice regularly.

## MATERIALS AND METHODS

Another integral aspect is personalization. Unlike classroom settings where teachers cannot always cater to the needs of every learner, AI systems are designed to analyze data from users' interactions and tailor exercises to their unique requirements. This means identifying pronunciation patterns, common grammatical mistakes, and fluency issues, after which the application can introduce targeted exercises. The cyclical process of assessing and refining learning activities fosters consistent progress

in speaking abilities. Pronunciation remains a significant hurdle for non-native English speakers. AI-driven speech recognition technology provides a strong foundation for learners to improve their pronunciation. These tools not only detect errors but also break down words phonetically, display mouth movements, and offer recordings from native speakers for comparison. Learners hear their own pronunciation versus that of a native speaker, making corrections intuitive and self-guided [1].

Moreover, AI technologies offer immersive scenarios that mirror real-life situations. For example, a learner virtually “checks in” at a hotel, orders food at a restaurant, or attends a job interview, thus building not just vocabulary, but also the confidence needed for spontaneous communication. Practicing in situational contexts ensures that language skills gained translate directly into real-world usability. Motivation plays a critical role in language acquisition, and AI-based tools utilize gamification techniques such as badges, points, and streaks to make learning engaging. Learners enjoy the challenge, track their improvements, and set achievable goals, all of which foster perseverance and a sense of accomplishment. Social interaction is another core element in developing speaking skills. Many AI platforms now facilitate communication with other learners worldwide. Through voice calls, video chats, or group discussions, individuals receive diverse feedback and encounter a variety of speaking styles and accents. This not only refines their linguistic competence but also exposes them to cultural nuances and non-verbal cues essential in real-life communication [2].

## RESULTS AND DISCUSSION

Despite the numerous benefits, AI-based language learning tools are not without challenges. Although increasingly sophisticated, artificial intelligence cannot yet fully replicate the intuition, empathy, and flexibility of human teachers. Some learners find it difficult to adapt to technology-assisted environments, and issues such as accent bias, limitations in speech recognition software, and data privacy concerns require ongoing attention. However, ongoing advancements in machine learning and natural language generation are gradually bridging these gaps. AI programs are evolving to better understand context, tone, and emotion, making conversations more engaging and realistic. The increasing integration of virtual reality (VR) and augmented reality (AR) with AI is opening new frontiers, where learners can immerse themselves in lifelike environments, practicing English speaking skills in simulated but richly interactive settings. Effective implementation of AI in English language education also depends on educators. Teachers now have the unique opportunity to use AI tools as supplements to enhance classroom learning. Rather than replacing teachers, AI empowers them to focus on creativity, critical thinking, and supporting students with individual needs. Teachers can use insights generated by AI, such as student progress reports and error analysis, to tailor their instruction more effectively [3].

Furthermore, language assessment is experiencing a transformation through AI. Automated speaking tests provide instant, objective evaluations of pronunciation, fluency, and coherence. This allows learners to benchmark their abilities continually and motivates them to set new milestones. AI-supported formative assessment fosters an environment of continuous feedback and improvement, indispensable for mastering speaking skills. There is also a notable positive impact on learners with special needs or learning disabilities. AI-enabled speech exercises and adaptive content delivery can be tailored to various learning speeds and styles. For those struggling with speech impediments or anxiety, virtual speaking partners offer a safe, judgment-free environment to practice and gain confidence at their own pace [4].

AI's ability to analyze vast amounts of data and identify trends is invaluable for curriculum developers and policymakers. It becomes possible to determine the most common challenges learners face, develop targeted resources, and monitor the effectiveness of different teaching methodologies. Data-driven decision-making, facilitated by AI, leads to constant refinement of language programs and resource allocation that can reach more students effectively. Digital literacy is another skill that develops alongside English proficiency when interacting with AI-driven learning environments. Navigating these advanced applications requires learners to become comfortable with technology, equipping them for modern workplaces where both English and digital skills are indispensable. The future of developing English speaking skills through artificial intelligence is bright. The technology is continuously improving, and as it evolves, so does its ability to facilitate deeper, more meaningful educational experiences. In the near future, AI will likely enable seamless multilingual conversations, integrate cultural knowledge into language training, and provide even more realistic simulations for practice [5].

## CONCLUSION

In summary, artificial intelligence is proving to be a powerful ally in developing English speaking skills. With its ability to provide accessible, personalized, and engaging learning experiences, AI stands to democratize English language learning—making it possible for people all over the world, regardless of geographic location or socio-economic background, to achieve fluency and confidence in English communication. While challenges remain, the ongoing collaboration between AI developers, educators, and learners ensures continual progress and innovation. As AI becomes more integrated into daily learning and teaching practices, the way we acquire and use English speaking skills will transform for the better, opening up new opportunities for global communication and understanding.

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