https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

Samadova Rukhsora Jurabek kizi

Navai State University, Language Depratment, English Language and Literature Faculty First Grade student

rukhsora.samadova.07@gmail.come

THE ROLE OF ARTIFICIAL INTELLIGENCE IN MODERN LANGUAGE ACQUISION

Abstract: The recent years have shown significant development of Artificial Intelligence (AI) technologies which established a new period for language learning. The research investigates multiple creative methods to implement artificial intelligence in language education through adaptive learning systems and automatic text evaluation and virtual assistants which help students develop their language abilities. The research examines student personal traits while demonstrating AI applications which enhance learning optimization through individualized education. The research study reveals both positive aspects and difficulties which teachers and students encounter when they use these educational technologies in their learning environment. The research results will help future studies and recommendation development about artificial intelligence applications for language education success.

Аннотация: В данной статье анализируются коренные изменения в сфере изучения языков, вызванные стремительным развитием искусственного интеллекта (ИИ) в последние годы. В ходе исследования рассматривается роль таких инновационных методов, как адаптивные системы обучения, автоматизированная оценка текстов и виртуальные помощники в формировании языковых компетенций студентов. Особое внимание уделяется индивидуальным особенностям обучающихся и эффективности использования ИИ для персонализации учебного процесса. В работе выявлены как положительные аспекты внедрения данных технологий, так и

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

трудности, с которыми сталкиваются преподаватели и студенты. Результаты исследования содержат научно обоснованные рекомендации по успешному применению ИИ в лингвистическом образовании.

Annotatsiya: Ushbu maqolada so‘nggi yillarda sun’iy intellekt (SI) rivojlanishi natijasida til o‘rganish sohasida yuzaga kelgan tub o‘zgarishlar tahlil qilinadi. Tadqiqot davomida moslashuvchan o‘qitish tizimlari, matnlarni avtomatik baholash va virtual yordamchilar kabi innovatsion usullarning talabalar til ko'nikmalarini shakllantirishdagi o‘rni o‘rganilgan. Shuningdek, ta’limni individuallashtirish jarayonida talabalarning shaxsiy xususiyatlari va SI ilovalarining samaradorligi ko‘rib chiqiladi. Maqolada ushbu texnologiyalarni amaliyotga joriy etishdagi ijobiy natijalar bilan bir qatorda, o‘qituvchi va talabalar duch kelayotgan muammolar ham yoritilgan. Tadqiqot yakunida til ta’limi muvaffaqiyatini ta’minlashda SI texnologiyalaridan foydalanish bo‘yicha ilmiy asoslangan tavsiyalar berilgan.

Keywords: Artificial Intelligence, Language Acquisition, English Proficiency, Natural Language Processing, Adaptive Learning, Educational Technology, Virtual assistants, Personalization of learning, Challenges, Reult and discussion.

Ключевые слова: Искусственный интеллект, освоение языка, владение английским языком, обработка естественного языка, адаптивное обучение, образовательные технологии, виртуальные помощники, персонализация обучения, вызовы.

Tayanch so‘zlar: Sun’iy intellekt, til o‘zlashtirish, ingliz tili darajasi, tabiiy tilni qayta ishlash, moslashuvchan ta’lim, ta’lim texnologiyalari, virtual yordamchilar, o‘qitishni individuallashtirish, qiyinchiliklar.

Introduction

What is artificial intelligence (AI)? Leading AI researcher Sebastian Thrun defines AI as machines' ability to mimic intelligent human behavior. Eric Horvitz,

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

former president of the Association for the Advancement of Artificial Intelligence (AAAI), defines AI as "the field of computer science dedicated to solving cognitive problems commonly associated with human intelligence, such as perception, reasoning, learning and natural language understanding." Horvitz and Fast (2017).

Artificial intelligence (AI) is the science and engineering of developing intelligent machines such as computer programs. It enables machines to replicate human behavior. AI is transforming education by improving teaching methods, personalizing learning experiences, and expediting administrative tasks.

Artificial intelligence, distinguished by its ability to simulate human intelligence, has advanced significantly in recent years, affecting many aspects of society. AI is increasingly being studied as a promising tool for supporting and improving language learning and teaching.

Dictionary definitions center on artificial intelligence. "is a sub-field of computer science and how machines can imitate human intelligence: a branch of computer science dealing with the simulation of intelligent behavior in computers; the capability of a machine to imitate intelligent human behavior" (as stated by Merriam-Webster).

Artificial intelligence can help improve core language competencies such as speaking, listening, reading, and writing. AI-powered tools, such as speech recognition, chatbots, virtual tutors, and language learning apps, help to create engaging and interactive learning experiences. These innovations, such as instant feedback, tailored assessments, and personalized learning materials, have the potential to improve learners' communication skills and accelerate the process of learning a new language.[1;3-4]

The article examines AI-based language learning methods which describe their effects on student learning and teacher-student communication.

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

Artificial intelligence brings a revolutionary change to language education through its development of new educational methods and technological resources which create an improved learning environment.

Personalization of Learning.

The training process depends heavily on individualized approaches which are known as personalization. AI systems use student data about their current skills and learning targets and past engagement activities to create individualized educational content. Language learning requires this approach because students need motivation and personal interest to achieve success. Machine learning algorithms enable AI platforms to perform student ability diagnosis through their systems. The assessment helps determine which learning approaches and educational materials will produce the best results.

Adaptive Learning Systems

The adaptive learning systems (ALS) track student learning progress in real-time to create individualized learning spaces which help students learn new skills more efficiently. The learning systems of Duolingo and Rosetta Stone operate through ALS. The system does not follow a predetermined sequence because it adjusts the content difficulty and speed and topic arrangement based on student performance. The system enables students to receive immediate feedback about their performance which motivates them to learn better. Students can witness the direct outcomes which their work produces. AI delivers particular operational resources which enable automated practice and feedback assessment for students to develop their writing and speaking and listening abilities.

Virtual Assistants and Their interactions with language

Virtual assistants including Siri and Google Gemini and Google Assistant serve as essential tools for language learning students. These technologies enable students to develop their conversational abilities through interactive practice

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

sessions. Students who ask questions in their target language will receive responses which enables them to enhance their speaking abilities and their ability to understand spoken language. Research indicates that most students achieved better results in their pronunciation and listening comprehension abilities.

However, the implementation of AI in language learning is not without its challenges. While AI can offer technological solutions to many problems, it still struggles to replicate the subtleties of human interaction, including cultural nuances, emotional understanding, and context. This raises questions about the balance between technology and human involvement in education. Over-reliance on AI tools could limit students' exposure to organic, face-to-face communication, which remains a crucial component of language proficiency.[2;52]

Artificial intelligence has transformed language education through its ability to provide customized instant feedback yet researchers have discovered multiple drawbacks which make it unsuitable to replace human teachers in classrooms. The research faces a major restriction because it studies participants in artificial conditions which lack their typical emotional and natural environment. AI systems which include chatbots and virtual tutors fail to duplicate the complex natural dialogue which humans create through their conversations. The inability to recognize irony and humor and complex cultural references and non-verbal signals including tone and body language prevents them from building genuine communicative competence.

The educational system faces a major threat because students will depend too heavily on technology while their creative abilities will become limited. Students who use AI tools for instant translation and grammar correction might avoid the essential learning process of dealing with mistakes because this struggle helps them develop better memory retention and deeper understanding. The students' ability to develop autonomous learning abilities and create their own original thoughts through complex thinking will suffer because of this dependency.

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

Result and discussion

The solution requires resolution of both operational and moral issues. The implementation of advanced AI learning platforms demands major financial outlays together with complex technological systems which create barriers for students from underdeveloped areas and those who cannot afford the expenses. The training data used for AI development contains built-in preferences which result in algorithmic bias that restricts students from experiencing all variations of their target language. AI serves as an essential resource yet it lacks the ability to duplicate the human capabilities which produce authentic language skills and cultural knowledge. AI becomes useful for both students and their instructors when implemented correctly.

The evidence shows that AI technology provides multiple benefits which enhance language learning processes. The system enables individualized feedback delivery which simultaneously enhances student engagement and reduces their required study duration. The combination of these features enables AI tools to deliver optimal results for students who want to learn independently. The implementation of AI technology brings its own set of difficulties yet research indicates AI functions as a vital tool which enhances language learning through better performance and increased student satisfaction.

Conclusion

In conclusion, Artificial Intelligence offers unparalleled opportunities for enhancing English language proficiency by creating learning environments that are more adaptive, accessible, and personalized than traditional methods. Through intelligent systems such as adaptive learning platforms, speech recognition tools, chatbots, and virtual tutors, learners are able to receive immediate feedback, customized instruction, and continuous practice tailored to their individual needs

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

and proficiency levels. These features significantly contribute to improved learner motivation, autonomy, and overall language competence.[2;52]

Despite its numerous advantages, the successful integration of AI in language acquisition requires a balanced and thoughtful approach. AI should not be viewed as a replacement for teachers but rather as a powerful complementary tool that supports human-centered teaching practices. Human interaction remains essential for developing pragmatic language skills, cultural awareness, emotional intelligence, and authentic communication, all of which are difficult for AI systems to fully replicate.

By addressing current challenges such as ethical concerns, accessibility issues, and the risk of over-reliance on technology, educators and policymakers can ensure that AI is used responsibly and effectively. Furthermore, ongoing advancements in artificial intelligence, including virtual reality, augmented reality, and intelligent conversational agents, hold great potential to further enhance immersive and interactive language learning experiences.

Ultimately, the continued integration of AI into language education has the potential to democratize learning by making high-quality language instruction accessible to learners worldwide, regardless of geographical or socioeconomic barriers. As technology continues to evolve, Artificial Intelligence will play an increasingly important role in reshaping the way English and other languages are taught and learned, paving the way for a more inclusive, innovative, and effective era in education.

References

1. Dr. Sarangpani R. SH. The Role of Artificial Intelligence in Language Acquisition: A Tool for Enhancing Proficiency (2024) https://zenodo.org
2. Fatima S.Kh. The Role of Artificial Intelligence in Language Learning https://share.google/kOaSbyegfLcaa0Hgc

https://wordlyknowledge.uz/index.php/gpble
Qabul qilingan sana: 07.12.2025
Nashr etilgan sana: 30.01.2026

3. Liu, M., & Wang, J. (2020). "Artificial Intelligence and Language Learning: A Review of the Current State of AI Applications." Journal of Educational Technology.

4. Huang, X., & Wang, R. (2021). "AI and English Learning: The Role of Machine Learning in Personalized Education." Linguistics Today.

5. Sommers, R. (2022). "Chatbots and AI in Language Education: The Future of Language Acquisition." Educational Innovations Journal.

6. Хакимова Н.Х.ИНТЕГРАЦИЯ ИНТЕРАКТИВНЫХ ТЕХНОЛОГИЙ В ОБУЧЕНИЕ РУССКОМУ ЯЗЫКУ КАК ИНОСТРАННОМУ https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=taVL8yAAAAAJ&authuser=1&citation_for_view=taVL8yAAAAAJ:YsMSGLbcyi4

7. Duolingo (n.d). Learn Language for Free. Forever. Retrieved form www.duolingo.com

8. Z. N. Ne'matullayevna, Sh. L. Tilloyevna Chet tillarini o'rganishda sun'iy intellekt texnologiyalarining ta'siri. universalconference.us PSSIR jurnali volume 01, issue 05 2025

9. A. D. Asatullayevna. & H. Sh. G'olibjonovna Ingliz Tilini O'rganishda Suniy Intellektning O'rni. " WORLDY KNOWLEDGE " Internetional Journal of Scientific Researchers. 5(1). 316-319 (2024)

10. Adiljanova Z.Sh. CHET TILLARNI O‘RGANISHDA SUN’IY INTELEKTNING O‘RNI | O'zbekiston davlat jahon tillari universiteti konferensiyalari https://share.google/dkUTCR1I6HWNnPu99