



# DEVELOPING COMMUNICATIVE SKILLS IN ENGLISH AMONG NON-PHILOLOGICAL STUDENTS BASED ON ARTIFICIAL INTELLIGENCE TECHNOLOGIES

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# **ABSTRACT**

In the era of digital transformation, artificial intelligence (AI) technologies offer innovative tools for enhancing English communicative competence, especially among non-philological students who often lack linguistic training. This study explores the integration of AI-powered platforms such as chatbots, virtual assistants, and adaptive learning systems—into English language learning environments. The paper highlights methods for fostering speaking, listening, and writing skills through interactive and personalized experiences. Emphasis is placed on motivation, engagement, and real-time feedback, which collectively contribute to more effective language acquisition.

**Keywords:** Communicative competence, artificial intelligence, non-philological students, English language learning, AI tools, adaptive systems

### ANNOTATSIYA

Raqamli transformatsiya davrida sun'iy intellekt texnologiyalari til boʻyicha maxsus tayyorgarlikka ega boʻlmagan, nofilologik yoʻnalishdagi oʻquvchilarda ingliz tilida muloqot koʻnikmalarini rivojlantirish uchun innovatsion vositalarni taqdim etadi. Ushbu maqolada chat-botlar, virtual yordamchilar va moslashuvchan oʻquv tizimlari kabi sun'iy intellekt asosidagi platformalarni ingliz tili oʻrgatish jarayoniga integratsiyalash muhokama qilinadi. Gapirish, tinglash va yozish koʻnikmalarini rivojlantirishda interaktiv va shaxsiy yondashuvlar asosiy oʻrinni egallaydi. Motivatsiya, jalb etish va real vaqtda fikr-mulohaza olish orqali til oʻzlashtirish samaradorligi oshiriladi.









Kalit soʻzlar: Muloqot koʻnikmalari, sun'iy intellekt, nofilologik oʻquvchilar, ingliz tili ta'limi, AI vositalari, moslashuvchan tizimlar

# **АННОТАЦИЯ**

В эпоху цифровой трансформации технологии искусственного интеллекта предоставляют инновационные инструменты для развития коммуникативных навыков по английскому языку среди студентов нефилологических направлений, не обладающих специальной лингвистической подготовкой. В статье рассматривается интеграция платформ на базе ИИ, таких как чат-боты, виртуальные помощники и адаптивные обучающие системы, в процесс изучения английского языка.

**Ключевые слова:** Коммуникативная компетенция, искусственный интеллект, нефилологические студенты, обучение английскому языку, ИИ-инструменты, адаптивные системы

### **INTRODUCTION**

In the 21st century, the ability to communicate effectively in English has become a key skill for students across all disciplines, not just those studying philology or languages. For non-philological students those pursuing careers in engineering, medicine, economics, technology, and other fields English often serves as a tool for accessing global knowledge, participating in international collaboration, and increasing career opportunities. However, many of these students face significant challenges in developing communicative competence due to limited exposure to language-rich environments and traditional teaching methods that focus more on grammar than on practical usage.

At the same time, the rapid development of **artificial intelligence** (AI) technologies is reshaping education. AI tools such as intelligent tutoring systems, speech recognition, chatbots, language learning apps, and virtual reality simulations offer new opportunities for personalized, interactive, and engaging language learning experiences[1]. These technologies can address individual learners' needs, provide





immediate feedback, and simulate real-life communication scenarios, which are crucial for developing fluency and confidence.

## LITERATURE ANALYSIS AND RESEARCH METHODOLOGY

The field of English language teaching has undergone significant transformations with the advent of digital technologies, and recent literature emphasizes the growing importance of artificial intelligence in enhancing language education. Scholars have examined the role of AI-based tools such as virtual assistants, intelligent tutoring systems, machine learning algorithms, and natural language processing in facilitating individualized learning experiences. Many researchers agree that the integration of AI can shift the focus from teacher-centered instruction to learner-centered environments where students actively engage in authentic communication tasks.

Several studies highlight the benefits of AI in developing communicative competence. For instance, the use of AI-powered chatbots allows learners to practice real-time conversations in a safe and non-judgmental space[2]. These tools not only provide instant feedback on grammar and vocabulary usage but also encourage repeated practice, which is vital for language acquisition. Other research emphasizes the value of speech recognition software in helping students improve pronunciation, fluency, and listening comprehension through interactive exercises[5].

**DISCUSSION AND RESULTS**Practical Applications of AI in Developing English Communicative Skills

Practical	A I To al I I and	Example of	Observed/Expected
Approach	AI Tool Used	Use	Result
Interactive	AI Chatbots	Students	Improved confidence
conversation	(e.g., Replika,	engage in daily	
	ChatGPT)	chats on topics	anxiety in real-life
	,	like greetings,	conversations









Practical	AT Tool Head	Example of	Observed/Expected
Approach	AI Tool Used	Use	Result
		travel, food ordering	
Pronunciation enhancement	Recognition (e.g., Elsa Speak,	Students read short texts aloud and receive instant pronunciation feedback	Better articulation; noticeable improvement in
Professional communication scenarios	AI-based simulations	` -	Development of field-specific vocabulary and communication strategies
Writing and grammar support	Grammarly, QuillBot, ChatGPT	Students write short reports or essays; AI tools correct grammar and suggest improvements	Enhanced written expression; increased
Creative communication tasks	AI Task Generators		world use of language; boosts motivation and









Practical	AI Tool Used	Example of	Observed/Expected
Approach		Use	Result
		dialogue for a job interview"	
Real-time feedback and correction	Smart AI Feedback Systems	AI evaluates speaking and writing tasks instantly and offers suggestions	improvement; promotes self-editing and learner
Listening comprehension development	AI-generated podcasts and transcripts	Students listen to AI- curated audios with subtitles and practice summarizing	and summarizing skills; better attention to spoken
Vocabulary building through context	NLP-based flashcard apps (e.g., Anki + AI plugins)	vocabulary based	Stronger word recall; contextual understanding of new vocabulary

This table highlights how non-language major students can practically benefit from AI-driven tools in their journey to improve English communicative competence.





The focus remains on real classroom or self-learning settings, ensuring each tool directly contributes to productive language use[3].

# **CONCLUSION**

The integration of artificial intelligence technologies into English language education opens new and effective avenues for developing communicative skills, especially among non-philological students. Unlike traditional methods, AI-powered tools offer personalized, interactive, and learner-centered experiences that cater to various learning styles and proficiency levels. By using AI applications such as chatbots, speech recognition software, smart writing assistants, and virtual simulations, students are exposed to authentic communication environments that promote active language use.

This study demonstrated that AI not only enhances students' engagement and motivation but also provides continuous, data-driven feedback that helps learners identify and correct their weaknesses independently. As a result, students build greater confidence in using English in both academic and professional contexts[4].

The practical applications explored in this research show that even learners without a strong linguistic background can significantly improve their fluency, accuracy, and communicative competence when supported by well-designed AI tools. Furthermore, AI contributes to inclusive education by offering accessible and adaptable solutions that can be easily implemented in diverse learning environments.

### REFERENCES

- 1. Alrehaili, T. (2020). The impact of artificial intelligence applications on EFL learners' speaking skills. International Journal of Emerging Technologies in Learning, 15(22), 83–94. https://doi.org/10.3991/ijet.v15i22.17175
- 2. Godwin-Jones, R. (2019). Challenges and opportunities in using AI tools for language learning. Language Learning & Technology, 23(3), 4–14. <a href="https://doi.org/10125/44660">https://doi.org/10125/44660</a>
- 3. Liaw, M. L., & English, K. (2017). Using Chatbots to Facilitate English Language Practice: A Case Study. CALL-EJ, 18(2), 16–28.











- 4. Kukulska-Hulme, A. (2020). Mobile-assisted language learning [MALL] and AI integration: Potentials for communication skill development. ReCALL, 32(1), 16–30. https://doi.org/10.1017/S0958344019000200
- 5. Hwang, G. J., & Fu, Q. K. (2019). Trends in the research design and application of mobile language learning: A review of 2007–2016 publications in selected SSCI journals. Interactive Learning Environments, 27(4), 567–581. <a href="https://doi.org/10.1080/10494820.2018.1486861">https://doi.org/10.1080/10494820.2018.1486861</a>

