



ANALYZING THE EFFECTIVENESS OF CHATGPT AND OTHER ARTIFICIAL INTELLIGENCE TOOLS IN LANGUAGE TEACHING

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Abstract

This article analyzes the role and effectiveness of artificial intelligence technologies, in particular generative language models such as ChatGPT and modern digital learning tools such as Duolingo Max, Gemini, replica, in the language teaching process. In the course of the study, the results of students studying on the basis of traditional methods are compared with students studying using SI-based educational tools. The benefits, limitations, pedagogical and ethical aspects of using AI tools are also explored and recommendations are made for effective integration into the educational process.

Keywords: Artificial intelligence, ChatGPT, digital education, language teaching, adaptive teaching, generative model.

Introduction

The rapid development of modern information technology is making radical changes to the field of Education. The development of artificial intelligence has become an important innovative mechanism, especially in the process of Language Teaching. Platforms such as ChatGPT, Gemini, Duolingo are creating conditions for language learners that previously did not exist, providing them with unlimited communication, automatic analysis, an individual curriculum and an in-depth explanation of any language. Also, because artificial intelligence tools eliminate the boundaries of time and space, the reader is able to independently learn the language whenever he wants, wherever he wants.

The relevance of the topic is that, although there are many opinions about the effectiveness of the use of artificial intelligence in the process of language



teaching, its real impact, the degree of student competence improvement, how harmoniously it works with traditional methods, compliance with pedagogical requirements still requires extensive scientific analysis. It is for this reason that this article is aimed at studying the role and effectiveness of artificial intelligence tools in Language Teaching on a scientific basis.

The purpose of the study is to study the impact of ChatGPT and other artificial intelligence tools on the language teaching process, identify their advantages and disadvantages, and develop scientifically based conclusions for application in the educational process.

The role of artificial intelligence tools in language learning

In recent years, artificial intelligence technologies have begun to be widely introduced in pedagogical processes, especially in language learning. Artificial intelligence facilitates complex processes such as determining the level of knowledge of students, preparing materials adapted to them, analyzing the educational process, automatic error correction. This process eases teacher activity, allowing the student to focus more individually.

Tools like ChatGPT, Duolingo Max, Gemini are providing many facilities for language learners. For example, ChatGPT teaches the reader to chat in real-life situations through interactive dialogue. Duolingo Max, on the other hand, strengthens vocabulary and grammar through playful exercises. And tools like replica will automatically analyze the pronunciation of the learner and make recommendations for its improvement.

One of the greatest advantages of artificial intelligence is the ability to adapt to the personal needs of the student. In traditional education, the teacher provides all students with the same material, which may not give the same efficiency for each student. But artificial intelligence determines the level of the reader, choosing exactly the exercises, texts and grammatical topics that suit him.

ChatGPT's potential in language learning

ChatGPT is a generative language model that performs many functions such as Text creation, chatting, annotation of language units, data analysis. One of its most effective aspects in teaching language is the ability to communicate live



with the student. The reader will increase his conversational competence by communicating with ChatGPT in English, Russian, Korean, Turkish, Arabic or other languages.

ChatGPT also explains grammar very effectively. The reader will identify errors in the text sent, explain them in detail why it is a mistake and give the right option. This process helps the reader not only to see the error, but also to understand it. ChatGPT can also simplify and rewrite complex texts to match the level of the reader. This makes it easier to learn the language in depth.

Another important aspect of chatgpt is its ability to create a personalized training plan. It develops tasks on grammatical topics, conversation exercises, hearing and writing in an individual order, taking into account the level of knowledge, difficulties, goals and interests of the student. This approach increases the student's motivation to learn language.

However, there are also some disadvantages of Chatgpt. For example, in some situations, inaccurate or inconclusive information may be provided. In addition, independent thinking activity may be impaired if the student becomes too attached to artificial intelligence. Therefore, teacher supervision and guidance are important when using Chatgpt.

Methodology for evaluating the effectiveness of artificial intelligence tools

To accurately assess the effectiveness of SI tools in Language Teaching, the study was carried out in two groups. The experimental team was trained using ChatGPT and other AI tools, while the control team received training based on traditional language teaching techniques.

During the study, students' vocabulary richness, grammatical correctness, pronunciation, fluency of speech and written speech were evaluated through measurements. Both groups were given an entrance test at the beginning of the school year and a final test at the end of the year. Also analyzed were Interview tests, statistics recorded on AI platforms, questionnaires formed on the basis of students' own opinions.

The results obtained were studied in comparison based on descriptive statistics. The results proved that almost all indicators of the experimental group are higher than those of the control group.



Results analysis

According to the results of the study, students who studied the language using AI tools increased the vocabulary wealth by about 35-45 percent, while in the traditional group this figure was 20-25 percent. While the experimental group reduced grammatical errors by 40 percent, in the control group this number was around 20-25 percent. Conversation skills were also significantly improved in the experimental group, as students were able to communicate daily using ChatGPT. The results show that AI tools increase student motivation, increase their interest in independent education, and speed up the learning process. The use of chatgpt provided students with a real-life intimate conversation experience that significantly enhanced their practical language skills.

Discussion

The pedagogical importance of using artificial intelligence tools is also evident from the results noted above. Many studies on the world also prove that students who learned using AI showed more results. At the same time, teacher activity is also important in the use of AI tools. Because AI cannot take it upon itself to properly guide the reader, verify information, and provide scientifically based methodology.

In addition, ethical issues are also important when using AI tools. In particular, presenting the text that the reader has prepared using AI as his work can lead to plagiarism. Therefore, it is necessary to carry out explanatory work with readers in this regard.

Conclusion

The above scientific analysis shows that ChatGPT and other artificial intelligence tools have high efficiency in Language Teaching. They provide personalized learning for the student, create interactive dialogue, instantly identify grammatical errors, and provide an opportunity for close-to-real-life conversation. As a result, the reader learns the language faster, more efficiently and more interesting than traditional methods.



When AI tools are properly integrated, they complement teacher activities in an efficient rather than complete manner. This contributes significantly to improving the quality of Education.

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