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## **NEURAL NETWORKS FOR ENGLISH HOMEWORK: EMPOWERING STUDENTS, NOT DOING THE WORK FOR THEM**

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In the modern world, there is a rapid development and widespread distribution of artificial intelligence (AI) and, in particular, neural networks. From automated production control systems to medical diagnostic tools, neural network are penetrating all spheres of our life Education is no exception. The use of AI in education opens up new opportunities for both students and teachers: it contributes to the personalization of learning, the automation of routine tasks, and the improvement of the educational process efficiency. [1]

In Belarus, as in the whole world, there is a growing interest in the use of neural networks at schools and lyceums. Teachers use neural networks to check tests, create personalized lesson plans, and analyze student performance. Students, in turn, use neural networks to get help with homework, search for information, study new materials, and prepare for tests and exams. [2]

Neural networks are becoming increasingly popular among students for preparing homework. Their use is particularly relevant when doing English homework, as this subject, as a rule, presents particular difficulty for students due to the lack of constant language practice and the need for constant improvement of communication skills. Neural networks offer students a wide range of tools for these purposes. [3]

In order to study the impact of AI use on the quality of knowledge acquisition, a survey of 29 students of the Polesky State University Lyceum aged 15-17 was conducted (via the Google Forms online platform and in paper form), as well as an oral survey of 12 teachers of the Polesky State University Lyceum regarding the use of neural networks by students in the process of preparing homework. Data collection was carried out over a month.

The survey results show that 78% of student respondents use AI daily to do their homework, with 68% using it to do their English homework. Of those students who use AI to complete English homework, 100% use it for translating words, 56% for solving grammar problems, and 34% for writing essays.

The respondents note that the use of neural networks helps them do homework significantly faster, freeing up time for other activities (85%), contributes to reducing the number of errors and improving the quality of homework done (67%), helps search for information and complete complex tasks (67%).

According to the study, the top three most used AI assistants are as follows: 74% of respondents use Google AI, 63% – the DeepSeek platform, 37% – GPT.

As a part of the survey, 89% of PSU Lyceum teacher respondents note that the use of neural networks in the process of preparing homework, increases the risk of plagiarism, prevents students from thinking independently (76%). According to the teachers, students become too dependent on neural networks and lose the ability to analyze the information, including that obtained from neural networks. Among the positive aspects of this process, respondents note that neural networks contribute to increasing student motivation (53%), make the learning process more interesting and engaging (61%), develop independent work skills (75%).

The results of the survey confirm the widespread use of AI among students and emphasize the need to develop recommendations for its effective application. Neural networks can become a powerful tool for increasing the efficiency of the educational process, but they should not replace students' independent work and critical thinking.

Let us consider modern neural networks and their potential when preparing English homework.

| Neural network   | Purpose of use                                                                                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ChatGPT (OpenAI) | writing essays, letters, stories; generating ideas; checking grammar and style, creating texts on a given topic, correcting errors, suggesting alternative phrasings |
| Grammarly        | checking grammar, spelling, punctuation, style, automatic correction of errors, suggesting style improvements, explaining grammar rules.                             |
| DeepL Translator | translating texts from English to Belarusian/Russian, and vice versa                                                                                                 |
| Quizlet          | creating and using flashcards for memorizing words and phrases, helping with vocabulary learning, memory training, creating personalized learning materials.         |
| YouChat          | searching for information, answering questions, generating texts, providing information on various topics, helping with research assignments.                        |
| ELSA Speak       | improving and analyzing pronunciation, providing feedback, practicing pronunciation skills                                                                           |
| Google AI        | diverse tasks, including translation, writing texts, searching for information                                                                                       |
| DeepSeek         | generating texts, specializing in complex tasks requiring logical thinking                                                                                           |
| GPT (OpenAI)     | generating texts, answering questions, creating the content                                                                                                          |

Thus, when preparing English homework students should use neural networks not as a performer, but as an assistant or an expert that can provide help upon reasonable request quickly. Let us consider this effective way of using neural networks with specific examples:

- for writing essays (using ChatGPT or Gemini to generate ideas and create a draft, and then independently editing and refining the text);
- for checking grammar (using Grammarly to identify and correct errors, but carefully studying the explanations and memorizing the rules);
- for learning vocabulary (using Quizlet to create flashcards and train memory, but trying to use new words and phrases in context);
- for improving pronunciation (using ELSA Speak to practice pronunciation skills, but listening to audio recordings of native speakers and trying to imitate their pronunciation).

In general, the impact of using neural networks when preparing English homework can be assessed as positive provided there is a conscious and responsible approach to their use.

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