

## **Digital psychological support for students under martial law using a chatbot, as an analog of signal filtering in communication systems**

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### **Article**

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### **Abstract**

The article analyses modern approaches to the creation of chatbots and their use in the field of psychology and education. The main problems that arise in this area are identified, in particular, the need to ensure confidentiality, adaptation to the emotional state of users and integration with external information systems. A prototype of a chatbot for psychological support of higher education students has been created. The use of the GPT model is proposed to ensure the accuracy and adaptability of interaction. The OpenAI platform with the MyGPTs function was chosen, which allowed the chatbot to be adapted to the needs of users by downloading methodological materials and instructions. The chatbot was tested on real-life scenarios. Chatbot functions as a signal filter-similar to physical filters in communication systems. A survey among higher education students confirmed that the developed bot meets the requirements of modern digital solutions in psychological support, provides prompt feedback and creates a sense of emotional support. The results of the study can serve as a basis for further improvement of the chatbot and integration of additional features such as voice responses and interactive exercises.