

## "PRACTICAL APPLICATION OF MODERN ARTIFICIAL INTELLIGENCE PROGRAMS IN RESEARCH WORKS"

**Usmanova Khurshida Aybekovna**

Andijan State Pedagogical Institute Department of Primary Education Methodology,  
Lecturer

**Introduction** Artificial intelligence technologies are increasingly infiltrating various sectors of our lives today. The use of modern software in scientific research plays a crucial role in enhancing the efficiency of scientific processes, discovering new knowledge, and expanding the opportunities to use it. Various AI programs, including Midjourney, Adobe Podcast, Copy AI, Beautiful AI, and Bing AI, have become essential tools in conducting research.

With the help of these programs, the process of creating graphic images, methodological materials, audio and video files, as well as presentations for scientific research has become significantly easier. Furthermore, these technologies provide modern approaches to gathering, analyzing, and synthesizing theoretical data.

This research will analyze the practical applications of the aforementioned programs, their role in scientific activities, and the approaches aimed at improving efficiency. Additionally, the advantages of using AI tools in presenting and publishing research results will be discussed.

The relevance of this work lies in the fact that the correct and effective use of artificial intelligence technologies, as well as the integration of innovative approaches into scientific research, is a current necessity. Therefore, the analyses conducted on this topic will serve as a useful scientific-methodical foundation for students and researchers.

**Midjourney AI** [1] helps in research work by providing graphical, illustrative images, creating spatial visuals, and producing virtual representations for research presentations. Researchers use images generated with this program in the development of textbooks and methodological materials.

**Adobe Podcast** [2] is widely used to enhance the quality of online lessons and to create and edit audiovisual materials based on SMART technologies. This program allows for noise reduction and clarity in audio files of online lessons, which was not possible in the past without the necessary equipment.

**Copy AI** [3] assists in documenting research processes, creating advertisements, implementing new methods through video formats, and preparing multimedia resources. First-year graduate students typically use it to work with research related to improving the educational methods for elementary school students.

**Beautiful AI** [4] helps in creating and improving creative, well-organized presentations quickly and effectively. Students benefit greatly from using this tool, which significantly speeds up the process and delivers more efficient results.

**Bing AI** [5] is an essential tool for gathering conceptual and theoretical data. This program allows students to use online resources more effectively, especially when working with books and other literary materials, to gather information and generate summaries and logical conclusions.

**Conclusion** Artificial intelligence technologies have become crucial tools in modern scientific research, enhancing productivity and simplifying processes. This research analyzed the contributions and practical applications of Midjourney, Adobe Podcast, Copy AI, Beautiful AI, and Bing AI in scientific activities.

The results indicate that AI programs:

- Improve efficiency in creating and processing graphic, audio, and video materials;
- Facilitate the process of searching, organizing, and analyzing scientific data;
- Offer innovative solutions in developing educational materials and preparing presentations.

The application of these technologies in scientific research not only helps save time and resources but also encourages a creative approach to scientific processes. Particularly, in the field of primary education, AI's capabilities play a significant role in improving teaching methods and creating high-quality educational materials for students.

Thus, the conclusion highlights the tremendous importance of AI programs in advancing scientific activities. By further studying and applying these technologies, we can achieve even greater breakthroughs in scientific fields.

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