

## **PROSPECTS OF ARTIFICIAL INTELLIGENCE**

***Yana Baliaba***

*Faculty of chemical technology,*

*National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”*

Recently, artificial intelligence (AI) has amazed humanity with its capabilities. Thanks to this, significant progress has been made, and it has fundamentally changed our lives. AI has not been used from all perspectives; rather, it can be called the beginning. The world looks forward to the exciting new advances and breakthroughs that AI will bring. It's only clear that it has to be something fantastic because people expect even more.

Experts estimate that as much as 90 percent of online content may be synthetically generated by 2026 (Maggie Harrison, 2023). Such statistics highlight the prospects for the use of artificial intelligence in one of the industries where it is used. In general, artificial intelligence is used in education, medicine, industry, the public sector, smart homes, transport, etc.

Considerable progress in artificial intelligence is expected in health care. Smart programs can already determine vital signs and send this data to the doctor. Also, almost all information is already in digitized form. Searching for medicines on the required shelf in the pharmacy takes a few clicks. In the near future, artificial intelligence will be able to make 3D visualizations of computer tomography, which will help predict ischemic heart diseases in cardiology and reduce the risk for the patient's health. In dentistry, neural networks will be able to detect caries as well as facilitate the choice of a treatment method. Artificial intelligence can become a surgeon's assistant. There are no less innovative ideas in ophthalmology and pediatrics.

In the educational process, AI has successfully proven itself in its application on educational platforms, in the development of chatbots, etc. It has already become possible for artificial intelligence to make a report, presentation or even test in a matter of minutes. Unfortunately, today's artificial intelligence has made it possible for academic dishonesty to increase. Although there are many other ideas that, on the contrary, will allow those who want to get information for professional training, for example, artificial intelligence will help people with vision problems voice the text from a book, picture, or video. It will also be possible to remotely assess students' emotions to help determine who is having a hard time or who is bored. AI makes learning more interactive and accessible.

Transport and electronics are another important field of application for artificial intelligence. Unmanned transport, smart roads and stops are no longer new for us. But there are no less interesting ideas for the use of artificial intelligence. AI-based navigation systems can help blind people navigate cities more safely. Applications will be able to provide real-time audio recordings of the environment for the impaired hearing. AI can help reduce carbon footprints. Sensors will be able to monitor air quality, and systems will be able to optimize energy consumption. Also, neural networks will be able to recognize faces in public transport to identify passengers and detect potential threats.

Automation and robotics have already changed such industries as logistics. But

artificial intelligence goes further. A humanoid robot as Sophia is the basis for robotics and artificial intelligence research. She is the first robot citizen and the first robot ambassador. She can talk and express her thoughts, make facial expressions like a real person. On the one hand, this is exciting, and on the other hand, what will happen if robots replace people? The fact is that humans will be working alongside robots in the near future. They can even surpass people in such aspects as productivity, safety, and efficiency.

So, artificial intelligence has impressed us with its efficiency and ease of use, but this “artificial brain” will open many possibilities that have not yet been discovered. AI is ready to continue its transformational journey. Improvements in programming, expanding intelligence, advances in health care, automation and robotics, education, and the integration of artificial intelligence with the Internet are among the exciting predictions for the next few years. Implementing these advances will open up new opportunities and propel us toward a future where artificial intelligence will play an integral role in shaping our lives.

### **References:**

1. Ben Hartwig. Top 11 Benefits of Artificial Intelligence in 2023. Retrieved October 20, 2023, from <https://hackr.io/blog/benefits-of-artificial-intelligence>
2. Maiia Marienko. Artificial intelligence and open science in education. (2023, p. 48-53). Retrieved October 20, 2023, from <https://lib.iitta.gov.ua/734475/1/2023-381-marienkokovalenko.pdf>
3. Mike Thomas. "The Future of AI: How Artificial Intelligence Will Change the World". Built In. (2023, March 03). Retrieved October 20, 2023, from <https://builtin.com/artificial-intelligence/artificial-intelligence-future>
4. Stefaan Verhulst. “Experts: 90% of Online Content Will Be AI-Generated by 2026”. The living library. (2023, Posted on August 29). Retrieved October 20, 2023, from <https://thelivinglib.org/experts-90-of-online-content-will-be-ai-generated-by-2026/#:~:text=%E2%80%9CExperts%20estimate%20that%20as%20much,or%20manipulated%20using%20artificial%20intelligence.%E2%80%9D>