

THE PRESENT AND THE FUTURE OF ARTIFICIAL INTELLIGENCE

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We are entering the era of artificial intelligence, when computers and programs are able to perform tasks that used to normally require human intellectual activity. Today, artificial intelligence already greatly affects various aspects of our lives. However, with the development of technology and the possibilities of artificial intelligence, the question arises – where are we going and what can the future bring us?

Thus, the main purpose of this work is to look at both the present and the future of artificial intelligence, as well as discuss its potential benefits and risks. We will try to answer the question of how AI can change our lives.

To begin with, the modern world is in an era of rapid technological development, and one of the most discussed areas is artificial intelligence. Starting with the first computer programs capable of performing tasks that previously required human participation, and ending with modern complex machine learning systems, artificial intelligence is developing and undergoing significant changes [1].

Nowadays, AI is widely used in various industries. For example, it helps automate processes in manufacturing, manage large amounts of data in the financial sector, and increase the efficiency of business processes. Large companies are actively implementing robotics to automate tasks and increase productivity. The use of AI allows to reduce labor costs, increases the accuracy of task performance and helps to save time.

It is interesting that the future of artificial intelligence promises to be very promising. With the emergence of new machine learning methods, such as neural

networks and deep learning, the capabilities of AI are expanding significantly. These methods allow systems to process information independently, find patterns in data, and make decisions based on the knowledge gained [2].

One of the key areas of artificial intelligence development is the automation of medical processes. The use of AI in the diagnosis and treatment of diseases allows to improve the accuracy of diagnosis, determine the best method of treatment and prevent the occurrence of complications. In addition, the development of robotic surgeons allows complex operations to be performed with high precision and minimal error.

Another promising field of application of AI is the automation of transport. The development of autonomous vehicles capable of self-driving without human intervention can improve road safety and reduce the number of accidents. Moreover, the use of AI in the management of urban systems will allow to effectively regulate traffic flows, reduce traffic jams and reduce emissions of harmful substances.

Hence, the true state of artificial intelligence already has a significant impact on various industries, but its full potential has yet to be realized. The future of AI will provide the possibility of automating complex tasks and increasing the efficiency of work in various fields.

With the development of technology, we are faced with the possibility of creating AI that will be able not only to perform tasks, but also to independently analyze information, make decisions and learn from its mistakes.

One of the main trends of the future of artificial intelligence is its increasing autonomy. Current AI systems are already capable of complex tasks such as pattern recognition or voice control, but future developments will allow them to act even more independently.

Furthermore, an important characteristic of future AI will be its ability to adapt. Instead of being tied to certain conditions or programs, AI will be able to independently adapt to new situations and changes. This will allow it to be a more flexible and effective tool in various fields - from business to scientific research.

Finally, it is worth realizing that the future of AI represents both challenges and huge opportunities. With its help, we can solve complex problems, find new ways of

development and reach new heights in science and technology. The future of artificial intelligence will be determined by how we use its potential to achieve the common good of society.

In conclusion, we can infer that the future of artificial intelligence promises to be remarkable. With the development of autonomy, adaptability and interaction with people, AI will become an indispensable tool in many areas of life. However, we must keep in mind the importance of ethics and safety when creating such systems. Only in this way will we be able to fully reveal the potential of AI for the good of society.

References:

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