

BENEFITS AND DANGERS OF DEVELOPING ARTIFICIAL INTELLIGENCE

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Annotation: This article explores both the advantages and potential disadvantages of artificial intelligence (AI) in modern society. It examines how AI has become an integral part of various fields, such as medicine, education, and entertainment, offering improvements in quality of life and the development of innovative technologies. Also it highlights the potential benefits of AI, including its use in diagnostics, automation, communication, and product quality monitoring. Significant concerns, such as AI's potential for self-improvement and autonomy, the displacement of human jobs, security risks, and the spread of misinformation are mentioned as well. Additionally, the impact of AI on human intellectual and physical activity, as well as the potential for its misuse, are discussed.

Key words: artificial intelligence, automated systems, robots, autonomy, intellectual activity, automatic control, virtual reality.

Artificial intelligence (AI) is a field of computer science that deals with the creation of intelligent systems capable of performing tasks that require human intelligence. AI has many advantages and applications in various areas of life.

In recent years, artificial intelligence has become increasingly popular and is gradually being introduced into more and more areas of life. If you know how to use it correctly and know the limits of its use, then it can bring a lot of benefits to humanity. But despite the many advantages it brings, artificial intelligence also poses a serious danger to humanity in the future. Since people, especially young people, use it on a regular basis even for the simplest tasks, it makes us think carefully about the use of artificial intelligence.

One of the main dangers is that artificial intelligence may have the ability to self-learn and self-improve. This may lead to AI acting independently of human control, because artificial intelligence will surpass the level of mental abilities of the human brain. This may lead to unexpected consequences for humanity and entail serious danger.

It also follows that, with the development of artificial intelligence, there will be a huge probability of replacing human professions with automated systems. In some industries, such as media, service and even education, jobs are already being replaced by robots and automated systems. This may lead to unemployment and social problems.

The danger of artificial intelligence may also manifest itself in the field of security. It must be remembered that artificial intelligence can process huge amounts of information that a person sends it and apply this knowledge in real time for evil intentions.

Most often, AI is tested on test data, while it is quite difficult to confidently assert that it will work correctly on the entire set of input data. The larger and more diverse this set, the more difficult it is to perform such a proof. This can be dangerous when using AI in critical infrastructure or in responsible areas of production.

Distortion of information is another problem, since AI itself can provide false or inaccurate information, and such information can be read by the masses. Some of them even give false information as if it were real. And this largely sets up the person who made a request, because many people think that artificial intelligence always gives accurate and correct information, but

this is not the case. It is always necessary to double-check the information that artificial intelligence has given with reliable sources.

Substitution of information - an attacker, with the help of AI, can create high-quality copies of various documents, signatures, images and photographs, passing them off as the original.

Degradation of a person or society - People are increasingly shifting their intellectual activity to AI, which in turn can lead to a decrease in human brain activity. It can also physically weaken, since people trust AI with many of their tasks, even the simplest ones such as cleaning the house, vacuuming, dusting, washing dishes, watching after a child and much more. In general, the dangers of artificial intelligence are that it can become an unpredictable and unwanted weapon against humanity, leading to numerous negative consequences. Artificial intelligence has many disadvantages that cause certain concerns as listed above. However, these risks can be reduced with the help of competent development, use and control of AI.

The development of artificial intelligence (AI) leads to many positive changes in people's lives and significantly expands the capabilities of humanity.

Artificial intelligence can be used to create many new technologies and products that can significantly improve the quality of people's lives. This can apply to medical diagnostics and treatment, education, automatic control of home devices, etc.

AI is often used to develop chatbots that can simplify the process of communicating with people. People who do not like to communicate with others or those who consider themselves introverts and those who find it difficult to find friends can make friends and communicate with artificial intelligence. Now there are a lot of chatbots with which you can communicate on any topic for days on end. Monitoring product quality: AI is used to monitor product quality, allowing for quick identification of potential issues and improvements in production processes.

The use of AI can often be seen in cinematography to create special effects. It also helps in increasing the resolution and improving the quality of images and frames.

For study, travel or self-development, virtual reality is often used to create a more interactive and realistic landscape, and without the help of AI, it is impossible to do here. AI is used to create tests, as well as various tasks, educational games that help the teacher check the knowledge of students and make learning more interesting and accessible. It also helps students reduce long and complex information to simpler ones, supplementing and explaining with examples.

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