TECHNOLOGICAL BREAKTHROUGHS OF PARAMOUNT IMPORTANCE NOWADAYS
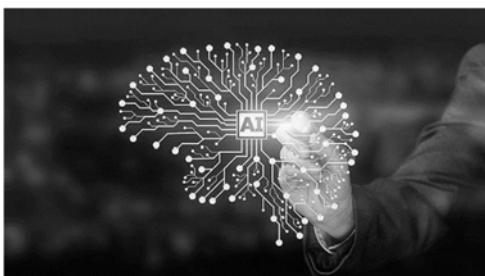
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Can you imagine yourself flying in a car over your city in a few years? How often do you use artificial intelligence (AI)? These are just two examples of technological breakthroughs, which, in our opinion, have a great influence on the development of mankind.

AI is probably the most crucial technological breakthrough of the modern world. Most AIs developed to date is "weak" or "narrow". So, for example, artificial intelligence can beat the world's best chess player, but if you ask it how to write a letter or fix a chair, it won't be able to do it. This is developing rapidly: AI can learn to multitask, opening the possibility of "artificial general intelligence" in the future.

An artificial general intelligence (AGI) would be AI with the most similar malleability of thinking as a human – and perhaps consciousness too – as well as the superhuman abilities of a digital intellect. Some corporations engaged in the development of AI have made it their aim to create AGI. One such company claims it will "enhance humanity by increasing abundance, energizing the global economy and supporting the discovery of new scientific knowledge" and become "a tool that multiplies the immense power of human ingenuity and creativity" (Fisher, 2023).

Regarding the already existing advantages of AI, we can name the following:

- Reduction in human error: AI can increase accuracy and precision and reduce errors;

- New inventions: in almost every area of activity, AI is the driving force behind countless innovations that will help humanity in resolving the majority of complicated issues;

- 24x7 Availability: artificial intelligence can perform tasks endlessly without any interruptions. It thinks more rapid than humans and perform various assignments at a time with perfect results.

However, a part of a humanity is scared about going a step further – creating AI that is much smarter than people – could bring serious hazards. There are also the following disadvantages of AI:

- High costs: being able to invent a machine that can imitate human intelligence is a significant achievement.

- No creativity: a major drawback of artificial intelligence is that it cannot learn to come up with new ideas.

- Make people lazy: AI applications automate the lion's share of monotonous and repetitious assignments. Since we do not have to remember things or solve puzzles to get some tasks done, we tend to diminish using our brains.

The future and its inventions seem distant to us, but it is not. This also applies to dreams about flying cars. Anyone who has the financial means can even now pre-order such a device, the production of which is planned for 2025-2026.

The need to create such machines is explained by its advantages. The introduction of flying machines will be able to solve the issue of time loss and heavy traffic on the roads. In addition, this invention will help with some environmental problems, such as the carbon footprint. This can be explained by the fact that

with the appearance of such electric cars, the number of ordinary cars will decrease.

What separates us from using them here and now? The main problems are noise pollution and lack of appropriate infrastructure. According to the inventors themselves, solving these problems is currently impossible, since the necessary devices for this have not yet been invented.

Technological progress does not stand still. Things that seemed impossible before have become commonplace. Things that seem unreal now will soon appear in

our daily lives. Therefore, our goal is to make technological breakthroughs that will improve human life, and not devalue people and human work.

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