

PROSPECTS FOR THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE

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Today, artificial intelligence and machine learning have begun to be applied in almost all areas of human activity: from the simple technology of blurring the background in photographs to the analysis of genetic predisposition to serious medical diseases by supercomputers.

Incredibly, nowadays artificial intelligence brings enormous benefits, and also has a significant potential in the development and expansion of the range of its applications. At the end of January 2020, CB Insights conducted an annual analysis of global trends in investing in artificial intelligence and reported that in 2019, specialists in such technologies attracted a record investment of \$26.6 billion, having concluded more than 2,200 deals worldwide. For comparison, in 2018, about 1900 agreements were concluded for a total of \$22.1 billion, and in 2017 - about 1700 for \$16.8 billion (Fig. 1).

Let us look at the potential areas of AI more closely.

Artificial intelligence in the agricultural sector. In agriculture, artificial intelligence is used in processing and harvesting equipment. Work in this area is carried out by foreign engineers.

Artificial intelligence in everyday life. Home robots are expected to become common by 2030. They will not be able to completely free a person from household duties, but they are able to provide the most favorable living conditions, automate a number of basic processes, predict and prevent housing and communal accidents, be responsible for the safety of property, etc.

Artificial intelligence in healthcare. With the help of artificial intelligence, it is planned to diagnose cancer in the early stages. The developers of Behold.ai report that the remedy for this disease will not have the usual form of medication. Their goal is to teach AI to detect malignant tumors on X-rays as early as possible, which is not to cure, but to prevent the development of the disease.

So, the field of AI, which has become a mature science, is developing gradually, slowly but steadily moving forward. Therefore, the results are quite well predictable, although on this path, sudden breakthroughs associated with strategic initiatives cannot be excluded. For example, in the 1980s, the US National Computer Initiative took a lot of AI out of laboratories and had a significant impact on the development of the theory of high performance computing and its application in many applied projects. Such initiatives will most likely appear at the intersection of different mathematical disciplines - probability theory, neural networks, fuzzy logic.

References

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The \$1B+ AI unicorn club is getting increasingly crowded

Number of AI startups reaching \$1B+ valuations for the first time

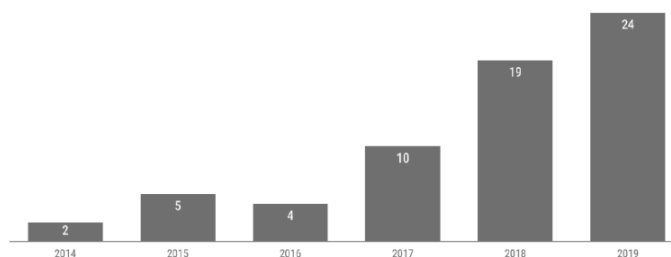


Figure 1. Number of AI startups worth more than \$ 1 billion, retrieved from CB Insights.

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