



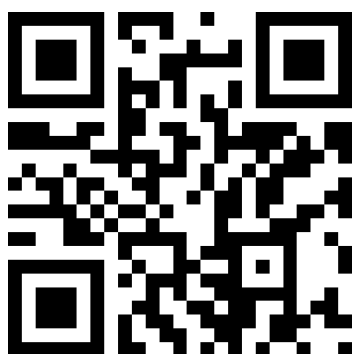
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PROBLEMS OF ARTIFICIAL INTELLIGENCE

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Abstract: *Artificial intelligence is an amazing technology that can be used in many fields. According to news reports, surveys and investment attractiveness indicators, artificial intelligence and machine learning will soon become an integral part of everyday life. This article reveals the problems of artificial intelligence, and also includes an answer to the question of the role of artificial intelligence in the modern economy and the prospects for its development.*

Keywords: *artificial intelligence, technologies, algorithm, problems, humanity.*

The problem under consideration is relevant, because today in the modern scientific space, artificial intelligence is being studied more and more, and as a result, the debate about the prospects and risks of its wider application is intensifying. Today, artificial intelligence and machine learning are used 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. The purpose of this work is to analyze the main problems of artificial intelligence. Forming the importance and place of artificial intelligence in modern life; Identifying existing problems of artificial intelligence ; Determining the place and prospects of the development of artificial intelligence for humanity in the conditions of the digital economy .Problems of artificial intelligence. Artificial intelligence. In the modern world, everything is related to information technology, which is developing more and more recently, but remains imperfect. Researchers are actively engaged in expanding the possibilities of information technology science. Modern computing systems are rapidly approaching the human brain in their functionality. It is no longer a surprise that a machine can beat a person, for example, in chess. Artificial intelligence is a unique and powerful tool that will turn the world's mind upside down. Artificial intelligence refers to one of the areas of information technology that studies and develops systems that have the capabilities of human intelligence: learning ability, logical thinking, etc. If humans want to create a society where strong artificial intelligence is amenable, then they must start by creating an interspecies society. The process of adding new species to the galactic society is accompanied by the process of "ascension" of the previous species to the intelligent species, with the former serving the latter. People need to understand what human society is, how it differs from the society of dolphins and other intelligent species, and develop common criteria for a global culture capable of accepting differences beyond the boundaries of a single species. See the process of human globalization not as a process of settling and devouring the resources of the entire earth 's ecosystem, but as a process of creating a global culture in which the earth is a human home and requires care. As a confirmation of the high importance of the introduction of artificial intelligence into human life, there are a

number of innovations and achievements that reflect real power and efficiency in various areas of life, including medicine, commerce, finance, media, crime fighting, and others.

However, at the same time, the rapid development of artificial intelligence has highlighted that while machines can help people solve their own problems, they can also create new problems that can affect the economic, legal and moral foundations of our society. . In this regard, with the development of technology and its expansion, it is recommended to consider in more detail the artificial problems that the companies involved in its development must solve. The first problem arises in the field of employment. Over the years, the automation of the production process has systematically reduced the number of jobs. In turn, the rapid pace of development of artificial intelligence has accelerated this process and extended it to areas of human life that should have remained the monopoly of human intelligence for a long time. The beginning of the form the end of the form b Today, artificial intelligence algorithms are threatening jobs like never before. The idea of replacing doctors, lawyers, or even presidents with artificial intelligence does not seem fantastic at all. The artificial intelligence revolution will create many new jobs in various areas of life, but the problem is that in most cases, people who have lost their jobs do not have the skills necessary to fill such vacant positions. In order not to lose control over the situation, the high-tech industry must help society adapt to the main changes affecting the socio-economic landscape and smoothly transition to a future where robots will occupy more and more jobs. The next issue is bias. In recent years, artificial intelligence has become more biased than humans. The problem is that today the field of artificial intelligence suffers from a widespread scourge, the "white man problem", that is, the predominance of white men in the results of their work. The problem that caused a lot of controversy is also acute - this is the "filter bubble". This phenomenon has been observed in various media, which based on the preferences of the users, have made recommendations on those benefits and hidden different points of view. The next issue is responsibility. In the age of technology, there is absolutely no way to determine who is to blame for a software or hardware failure. Machine learning algorithms themselves determine how to respond to events. This can become a problem when AI algorithms start making more important decisions. Another problem is privacy. Artificial intelligence consumes enormous amounts of data, and companies whose businesses are built on these technologies increasingly collect user data without their consent in order to make their services more targeted and efficient. For more information, companies can push the boundaries of privacy. The artificial intelligence market is expected to reach \$52 billion by 2022. Perhaps this is not such a large figure - for example, by this year the market for computer games will exceed 130 billion, and the market for smartphones will already be 10 times larger in 2018 - 520 billion. But the artificial intelligence market is growing at an unprecedented rate – according to some estimates, it is growing by about 30% annually. If this pace of technology adoption continues for a few more years, we can soon expect AI to be literally everywhere. The world's largest IT companies: Google, IBM, Intel, Nvidia contribute to the development of artificial intelligence. The USA, China and Great Britain are leading. In conclusion, it is worth considering the prospects for the development of artificial intelligence. The purpose of artificial intelligence is to help people and perform difficult or routine tasks. For this, it is not necessary to conduct conversations on philosophical topics. However, if artificial intelligence can one day reach the level of human thinking, it will be a major milestone for civilization. A person can play music today and start programming in C++ tomorrow because of the incredible complexity of the white brain. It contains 86 billion neurons and countless synaptic connections between them. Artificial neural networks are still far from these indicators: they have several thousand to millions of neurons. There are technical limitations to the size of neural networks: even supercomputers cannot "draw" a neural network comparable to the human

brain. Not to mention that his training will be no small task. The "power" of intelligence is not related to the speed of calculations, but to the complexity of the neural network. Despite the fact that the speed of processes in the human brain is much lower than that of computers, it is superior to any artificial neural network in terms of power. Artificial intelligence is a human assistant in solving problems such as solving complex writing and tasks or diagnosing cancer. Thanks to artificial intelligence, computers can independently identify patterns among data sets and established rules recognition, that is, it has artificial neural networks connected to layers like in the human brain, and it can classify sounds and images. Smart computers also increase the efficiency of production processes. AI can act as a home advisor and even recognize emotions, and self-driving cars are better at avoiding accidents than humans. But "smart" systems have their drawbacks. Thus, they can become victims of hacking attacks or make mistakes. Could artificial intelligence get out of control and become humanity's enemy? Now there is an active debate around this topic, in which the first people of the world of modern technology such as Elon Musk, Mark Zuckerberg and Bill Gates participate. For example, Zuckerberg does not see a threat to humanity, but Musk believes that artificial intelligence needs to be tightly controlled because it is "the biggest threat we face as a civilization." Bill Gates also calls artificial intelligence potentially dangerous. Which of the world's powers is right and whether artificial intelligence is more useful or dangerous can only be seen in a few decades. At this point, there is nothing left but to enjoy the benefits created with the help of artificial intelligence. Summary. Having set ourselves the goal of analyzing the main problems of artificial intelligence, we solved the following tasks: Shaping the importance of artificial intelligence in the modern world, defined the existing problems of artificial intelligence, artificial intelligence for humanity in the digital economy revealed the role and prospects of development. Based on the research, it can be concluded that artificial intelligence is an important scientific discovery with the perspective of global development of mankind. At the same time, there are still a number of problems related to the use and future development of artificial intelligence. The current danger does not leave anyone indifferent. Scientists are actively looking for ways to overcome existing contradictions and answers to a number of questions. In the future, if humanity still manages to create a full-fledged artificial intelligence that can live its own life, perhaps due to the superiority of computing power, as well as potential access to all electronics, the world will descend into chaos and humanity will disappear, so for the appeal on this issue should be permanent. It should be hoped that the robot will not harm the person, but only help him

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