APPLICATION OF ARTIFICIAL INTELLIGENCE IN VARIOUS FIELDS

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Abstract: At a time when technology is rapidly evolving, there is now a need to use the most up-to-date technologies in learning methods and especially in learning. In the captivity of many information, the main task is to find the most suitable among them and bring it into the education system. This article deals with this topic, the use of artificial intelligence in education, and its advantages and disadvantages. Artificial intelligence allows computers to study their own experiences, adapt to given parameters, and perform tasks previously only possible for humans. In many cases of AI implementation - from computer chess players to unmanned vehicles - the ability to learn deeply and process natural process is crucial. Thanks to these technologies, computers can be "trained" to perform certain tasks by processing large amounts of data and identifying patterns in them.

Key words: artificial intelligence, education system, medicine system, SubTech, RegTech.

INTRODUCTION

At its most basic level, AI is the process of using computers and machines to mimic human perception, decision-making, and other processes to complete a task.

Put differently, AI is when machines engage in high-level pattern-matching and learning in the process [1-2].

There are a number of different ways to understand the nature of AI. Two types of assessment include rules-based and machine learning-based AI [3]. The former uses decision-making rules to produce a recommendation or a solution. In this sense, it is the most basic form [4-6]. An example of this kind of system includes an intelligent tutoring system (ITS), which can provide granular and specific feedback to students.

The ability of students to use and have access to artificial intelligence in education often increases their level of knowledge and ensures their familiarity with technology. A few years ago, when technology was not developed, the biggest challenge for students was to direct the education system in the right direction, that is, to write a few pages of abstract work for a long time [7]. Artificial intelligence, on the other hand, makes the demands of knowledge easier.

MATERIALS AND DISCUSSION

The term "artificial intelligence" originated in 1956, but today AI technology has gained real popularity against the backdrop of increasing data size, improving algorithms, optimizing computing power and data storage media [8-9].

The first research in the field of AI, which began in the 50s of the last century, was aimed at solving problems and developing symbolic computing systems. In the 1960s, the U.S. Department of Defense sparked interest in the field: the U.S. military began training computers to simulate human mental activity [10].

For example, the Department of Advanced Research Projects Agency (DARPA) of the Ministry of Defense completed a number of virtual street map projects in the 1970s. And DARPA experts managed to create smart personal assistants in 2003, long before the advent of Siri, Alexa and Cortana. Although AI is often depicted in science fiction films and novels as scientifically powerful robots, it has gained worldwide power, and at the current stage of AI technology development, AIs are less common. they are scary and not smart [11]. On the contrary, the development of artificial intelligence will bring real benefits to these technologies in all sectors of the economy.

Artificial intelligence is considered to be the most widely used field and the most important is medicine. Because there are many infectious diseases in the field of medicine, and these diseases can be transmitted from patients to doctors. For example, during the covid-19 pandemic, many doctors contracted and contracted the virus from patients. This is when the use of artificial intelligence technology, i.e. robots, can prevent the illness. The doctor robot can quickly examine patients and prescribe the medications they need, and it can work non-stop for 24 hours and increase work productivity [12].

Advantages of using artificial intelligence robots in medicine:

1) There is no risk of contracting the disease because it is a robot.

2) The robot moves faster and more accurately than a human.

3) Does not receive salary.

4) Can work without rest.

On February 17, 2021, the Resolution of the President of the Republic of Uzbekistan "On measures to create conditions for the accelerated introduction of artificial intelligence technologies" was adopted [13].

The resolution calls for the introduction of artificial intelligence in many areas. For example, in the field of agriculture: the use of artificial intelligence technologies in the process of monitoring the condition of soil and agricultural crops, as well as agricultural machinery, including combines, based on remote sensing data caught in the act.

In the banking sector, to increase the effectiveness of monitoring the activities of commercial banks and simplify their compliance with regulatory requirements (SubTech and RegTech), as well as to analyze the quality of banking services, remote biometric identification (Face-ID) and credit risk assessment [14]. The task of applying intelligent technologies is defined.

In the financial sector, it is planned to use artificial intelligence technologies to analyze and increase the efficiency of budget expenditures, pension, social and insurance payments, as well as pension payments [15-16].

In the field of taxation, the analysis of tax revenues of legal entities, the use of artificial intelligence technology in determining differences in tax payments, and in the field of transport to monitor their movement in the process of locomotive

management and warning drivers in dangerous situations, analysis of public transport traffic and their optimal tasks for the application of artificial intelligence technologies in the detection of traffic jams, as well as in the monitoring of traffic and traffic congestion.

The most important area in which artificial intelligence can be applied is education. Because raising the knowledge of young people who are the builders of the future will remain a topical issue of every age. Sure, knowledge was also required to create a small amount of artificial intelligence. And it is possible to further enhance knowledge acquisition based on this knowledge product. For example, if we assume that 25 students study in one class, the individual work of one or two teachers with these children may be a bit of a problem, but this work is not a problem for artificial intelligence robotics. In order to improve the quality of children's education, the system of assessment will be fully implemented by artificial intelligence, which will ensure the absence of corruption and transparency in education.

But of course, there are two sides to the coin, and if artificial intelligence products in the field of medicine or education seem to be wrong, the question arises as to who will give the answer. And the answer to this question is abstract.

CONCLUSION

In short, artificial intelligence is useful and effective in all areas of this society. The most effective activity in the field of education belongs to artificial intelligence, and the use of technologies with artificial intelligence to improve learning in the education system ensures that students become more knowledgeable. In the field of medicine, too, the use of artificial intelligence robots to ensure human health can ensure that patients recover quickly. Artificial intelligence will become an integral part of human life in the future.

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