USE OF ARTIFICIAL INTELLIGENCE IN THE EDUCATIONAL PROCESS

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Annotation

This article analyzes the role of artificial intelligence technologies in the educational process, their capabilities and their importance in increasing their effectiveness. It also provides information about educational platforms, individual learning systems and automated assessment processes created on the basis of artificial intelligence. According to the results of the study, artificial intelligence is an important tool for improving the quality of education, facilitating the work of teachers and organizing the learning process of students more effectively.

Keywords: artificial intelligence, educational technologies, digital education, automated systems, innovative education.

Introduction

In recent years, as a result of the rapid development of information technologies, major changes have also occurred in the education system. In particular, the emergence of artificial intelligence (AI) technologies has brought the educational process to a new level. Artificial intelligence is a set of computer systems that operate on the basis of algorithms similar to the human thought process, and it has the ability to analyze large amounts of data, make decisions, and learn.

Today, artificial intelligence is widely used in many areas, including medicine, economics, transport, and education. The use of artificial intelligence in the education system allows for the individualization of the learning process, automation of teachers' work, and accurate assessment of student knowledge.

Therefore, the introduction of artificial intelligence technologies into the educational process is one of the important directions of modern education.

Artificial intelligence is the ability of computer systems to perform tasks similar to human mental activity. This includes learning, problem solving, logical thinking, speech recognition, and decision-making processes.

Artificial intelligence has the following main characteristics:

• rapid analysis of large amounts of data;

• improvement of results based on learning and experience;

• automatic decision-making;

• the ability to interact with humans.

In the education system, these characteristics play an important role in the effective organization of the educational process and the development of teaching methods appropriate to the level of knowledge of each student.

Artificial intelligence technologies can be used in various areas of the educational process, for example:

1. Creating an individual educational system

Each student has a different level of knowledge, interests, and learning speed. Educational systems created based on artificial intelligence analyze the student's level of mastery and recommend appropriate educational materials. This allows for individualization of the educational process.

2. Automated assessment system

With the help of artificial intelligence, test results, written work and other assignments can be automatically assessed. This saves the teacher's time and ensures the impartiality of the assessment process.

3. Virtual assistants and chatbots

Chatbots based on artificial intelligence can quickly answer students' questions. This is especially important in the distance learning process.

4. Development of distance learning

Artificial intelligence increases the efficiency of distance learning platforms. It monitors student activity, analyzes the learning process and provides individual recommendations.

The advantages of artificial intelligence in the education system are as follows:

The use of artificial intelligence in the educational process provides a number of advantages:

1. Increases the quality of education. Artificial intelligence accurately analyzes the level of knowledge of students and provides them with appropriate educational materials.

2. Facilitates the work of teachers. Assessment, statistical analysis and many other processes are automated.

3. Increases student interest. The learning process becomes more interesting with the help of interactive and modern technologies.

4. Expands the possibilities of distance learning.

Problems in the use of artificial intelligence

Nevertheless, there are some problems in the introduction of artificial intelligence into the education system:

• insufficient development of technological infrastructure;

• lack of teachers' skills in working with new technologies;

• problems with data security;

• excessive dependence on technologies.

Therefore, it is necessary to take into account pedagogical and technological factors when introducing artificial intelligence technologies.

Conclusion

In conclusion, artificial intelligence is becoming an important component of the modern education system. It is of great importance in the effective organization of

the educational process, expanding individual learning opportunities, and improving the quality of education.

In the future, as a result of the further development of artificial intelligence technologies, new innovative approaches to the educational process are expected. Therefore, it is important to expand scientific research on the effective use of artificial intelligence in educational institutions.

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