THE ROLE AND IMPORTANCE OF ARTIFICIAL INTELLIGENCE-BASED EDUCATION IN TECHNICAL SCHOOLS

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Annotation. The article presents how artificial intelligence technologies can be integrated into the educational process in technical schools and its role in improving the quality of education. The article also shows the importance of automatic assessment based on SI, the ability of teachers to effectively manage time and resources, and analytical approaches in analyzing the quality of education. The article concludes with the role of artificial intelligence in further improving the education system in technical schools in the future.

Key words: Artificial intelligence, technology, technical school, educational process, integration, curricula, creation, simulations, virtual practice, automatic assessment based on SI, analytical approach, improvement.

Аннотация. В статье представлено, как технологии искусственного интеллекта могут быть интегрированы в образовательный процесс в техникумах и их роль в повышении качества образования. В статье также показана важность автоматической оценки на основе SI, способность преподавателей эффективно управлять временем и ресурсами, аналитические подходы в анализе качества образования. Статья завершается ролью искусственного интеллекта в дальнейшем совершенствовании системы образования в техникумах в будущем.

Ключевые слова: Искусственный интеллект, технология, техникум, образовательный процесс, интеграция, учебные программы, создание, симуляции, виртуальная практика, автоматическая оценка на основе SI, аналитический подход, улучшение. Artificial intelligence systems provide opportunities such as adapting curricula, creating interactive lessons, and

implementing simulations and virtual practices, taking into account the individual learning needs of students. Artificial intelligence is presented as an important factor that helps to modernize the teaching and learning process in technical schools, as well as to deepen the development of students' professional skills.

Artificial intelligence (AI) is a technology that allows computer systems to learn, think, and make decisions like humans. Today, the application of AI technologies in various fields, including education, is creating significant changes. In particular, the use of AI in technical schools helps to make the learning process of students more efficient and innovative. This article discusses the role and importance of AI-based education in technical schools.

Artificial intelligence and the education system: a general concept. Artificial intelligence (AI) is a set of technologies based on modeling human intelligence, which includes machine learning, natural language processing, robotics, and many other technical solutions. AI technologies in education allow teachers and students to introduce innovative methods.

Application of artificial intelligence in technical schools. Technical schools, that is, professional educational institutions, are aimed at teaching students specific professional skills. Here, in addition to traditional lessons, the importance of teaching using modern technologies and innovative methods is of great importance. Artificial intelligence is actively used in technical schools in the following areas:

Structure of individual curricula: Artificial intelligence systems analyze the level of knowledge of students and create individual curricula that match their educational needs. This allows students to study according to their abilities.

Mental load management and effective time management: With the help of AI systems, students and teachers can receive clear instructions on planning the learning process, achieving goals, and effectively managing time.

Simulations and virtual environments: In technical schools, when teaching production processes, students can experiment with real work processes and learn from their mistakes using virtual and simulation systems. Artificial intelligence helps to make this process more effective and realistic.

Automated assessment and feedback: Artificial intelligence systems allow students to automatically assess their work, identify errors, and provide students with quick and accurate feedback. This, in turn, increases the quality of education.

The importance of artificial intelligence in education. The use of artificial intelligence in education has a number of advantages in technical schools:

Increasing efficiency: It creates opportunities for teachers and students to save time and use resources as efficiently as possible.

Interactivity and interesting learning: SI systems provide students with interactive lessons, games, simulations, and other innovative methods. This makes the learning process more interesting and effective.

Individual approach to students: Each student has a unique learning style and pace, and SI systems take these differences into account, allowing for individualized instruction for each student.

Analytical approach to learning: Artificial intelligence systems are able to quickly process large amounts of data, which helps to introduce statistical and analytical approaches to learning.

The role of artificial intelligence in the future. In the future, artificial intelligence is expected to be more strongly integrated into technical school education. This will not only improve teaching methods, but also create an opportunity for students to master professional knowledge and skills more deeply. This includes, for example, teaching students practical skills using robotics, 3D modeling, virtual reality (VR) and other innovative technologies.

Artificial intelligence-based education plays an important role in modernizing the educational process in technical schools. It allows students to be provided with a more interactive, effective and individual approach, as well as to in-depth training in professional skills. The role and importance of artificial intelligence in education will only increase in the future, and this technology will serve to improve the quality of technical school education.

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