Page No: - 88-90

INTEGRATING ARTIFICIAL INTELLIGENCE INTO LEARNING: ADVANTAGES AND CHALLENGES

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ABSTRACT

The article examines the impact of modern artificial intelligence (AI) technologies on educational processes. The author analyzes the advantages provided by the integration of AI into the field of education, such as personalized learning, automation of assessment and the development of innovative educational programs. Special attention is paid to the challenges that may arise when integrating artificial intelligence into education. The author examines these challenges from the point of view of ethical issues, data privacy, and interaction between teachers and students. The article emphasizes the need for a balance between automation and human intervention in the educational process. Based on the analysis of current research and practical examples of the introduction of AI in education, the article offers recommendations for the effective integration of artificial intelligence technologies into curricula, taking into account the unique needs and context of educational institutions.

KEYWORDS: artificial intelligence, education, training, technology integration, advantages of artificial intelligence, challenges in education, technological innovations, personalized learning, automation in education, learning efficiency, smart educational systems, the role of the teacher in the context of artificial intelligence.

INTRODUCTION

The modern world is at the center of the digital revolution, where technology and artificial intelligence (AI) play a key role in various fields. One of the areas that actively implements artificial intelligence is education. In this article, we will consider the advantages and challenges associated with the integration of artificial intelligence into learning. Artificial intelligence allows you to create personalized educational programs, taking into account the individual needs of each student[1]. Adaptive learning systems can automatically adjust to the level of knowledge and the pace of learning, providing an optimal learning experience.

Artificial intelligence helps to improve the accessibility of education by overcoming geographical and socio-economic barriers. Electronic platforms with AI provide access to educational resources for students from remote and low-income regions. The use of artificial intelligence to automate assessment processes makes it possible to evaluate students' knowledge faster and more objectively. This frees teachers from routine tasks and allows them to focus on more creative and interactive aspects of learning. The use of AI in education raises issues of ethics, privacy and data security. Strict regulations and standards must be developed to ensure that student data is used in accordance with the rules and does not violate their confidentiality.

Although AI provides efficiency and accuracy, some aspects of learning, such as the development of social skills and the education of emotional intelligence, are best carried out by

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human teachers. It is important to maintain a balance between technology and human interaction. The integration of AI requires teachers to be trained in new technologies and methods so that they can effectively use them in the educational process. This may require significant investment and effort to ensure appropriate teacher training.

Modern education has begun to evolve noticeably under the influence of technological innovations, in particular, through the introduction of artificial intelligence (AI). The use of AI in education opens up new horizons for the educational process, providing unique opportunities for students and teachers. However, there are also certain challenges associated with this, which require careful consideration and adequate management. Artificial intelligence is able to create personalized study programs, taking into account the individual needs and characteristics of each student[2]. This allows you to improve the quality of training and ensure maximum mastering of the material.

The use of AI in education can significantly reduce the time spent on routine tasks such as checking tests, evaluating papers and keeping a progress log. This allows teachers to devote more time to intellectual and creative activities. AI is able to adapt to changes in student needs and learning dynamics. This is especially useful in an ever-changing world where it is important to ensure the relevance of educational programs[3]. The introduction of AI in education raises questions about ethics and data privacy. Strict norms and standards must be developed to ensure the safety and transparency of the use of AI for educational purposes.

Teachers need special training to effectively use AI in the educational process. Teaching teachers new technologies is becoming an integral part of the successful integration of AI into education. The technical limitations of artificial intelligence can become an obstacle to its full use in education. This includes limited speech recognition capabilities, insufficient understanding of context, and other technical limitations. The integration of artificial intelligence into learning opens up new prospects for the development of the educational sphere. However, in order to take full advantage of this technology, it is necessary to approach the challenges of ethics, teacher training and technical constraints wisely[4]. Effective implementation of artificial intelligence in education requires an integrated approach and a balanced solution to the combination of advantages and challenges in order to provide quality education in the digital age.

CONCLUSION

The integration of artificial intelligence into education opens up new prospects for improving the quality of education and increasing the accessibility of education. However, it is necessary to carefully consider the ethical aspects and balance the use of technology with the need to preserve human interaction in the educational process. Responsible implementation of artificial intelligence in education can be a key element in creating an educational system where every student can reach their potential.

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