## ETHICAL AND LEGAL ASPECTS WHEN USING AI IN EDUCATION

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Artificial intelligence (AI) is one of the most transformative technologies of the 21st century. Since its inception in the 1950s, when John McCarthy coined the term "artificial intelligence" at a conference at Dartmouth, AI has come a long way, undergoing significant changes and improvements. The development of neural networks, deep learning and the expansion of computing power have led to the emergence of intelligent systems that are used in various fields, including education [1].

AI is based on ideas dating back to the 1940s, when Walter Pitts and Warren McCulloch demonstrated that logical operations could be modeled using electrical circuits. Since then, research and development in artificial intelligence has led to the creation of expert systems capable of solving complex problems in specific areas of knowledge, and to the emergence of technologies such as deep neural networks that have become the basis of modern AI applications.

The widespread adoption of AI technologies in the modern world has led to a number of ethical and legal issues, especially in the context of their use in educational institutions. Issues of privacy, fairness, security and transparency have become central to discussions of AI ethics, sparking debate about how the technology impacts education and how best to regulate its use.

This article provides an overview of the historical development of AI to better understand how these technologies have evolved and how their use in education raises complex ethical and legal issues. This article will examine what specific problems arise when introducing AI into the educational process, and propose possible ways to solve them [2,3].

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The use of artificial intelligence (AI) in education provides many opportunities, but also raises a number of complex ethical, legal and pedagogical issues. These issues require comprehensive analysis to ensure the responsible implementation of AI technologies in the educational process.

Ethical issues involve several key aspects. The first is data privacy. AI systems in education routinely collect and analyze student data, which can pose privacy risks. To solve this problem, it is necessary to implement strict data protection policies, use information encryption, and limit access to personal information to authorized persons only [4].

Second, AI may be subject to bias, which could lead to discrimination against certain groups of students. To combat this problem, it is important to carefully analyze the data on which AI systems are trained, as well as apply methods to reduce bias.

Transparency and accountability of AI systems in education are also critical. Students and teachers should be able to understand how AI makes decisions. To ensure this transparency, it is recommended that algorithms be developed that can be explained, and that accountability mechanisms be introduced [5,6].

Legal issues surround the automation of assessments and decision making. Using AI to perform automatic assessments may raise legal issues, especially in cases of errors or poor decisions. It is necessary to introduce mechanisms for reviewing AI decisions and guarantee human control in the decision-making process [7].

Another legal aspect concerns intellectual property and copyright. AI is capable of creating content that may be subject to copyright protection. It is therefore important to develop clear rules regarding intellectual property to avoid infringement and protect the rights of all parties.

Pedagogical problems arise due to decreased interaction between students and teachers, which can negatively affect the quality of education. To solve this problem, it is necessary to take a balanced approach that combines the use of AI with traditional teaching methods, providing the necessary level of personal interaction.

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In addition, there is a concern that AI could replace teachers, which would negatively impact the educational process. The solution to this problem may be to use AI as a tool to complement teachers rather than replace them. This will help maintain high quality education while providing additional opportunities for teachers and students

Thus, in order to effectively use AI in education and simultaneously cope with emerging challenges, collaboration between educational institutions, AI developers and legislators is necessary. This will ensure transparency, safety and fairness in the use of AI in the educational process.

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# MODERN TRENDS IN THE DEVELOPMENT OF DISTANCE EDUCATION: INTEGRATED PLATFORMS, MEASURING SYSTEMS AND NEURAL NETWORKS.

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This paper analyzes current trends in the development of education, focusing on remote forms of learning. Methods are considered to promote the development of integrated educational platforms, the introduction of information and measurement systems, taking into account pedagogical aspects, as well as the use of neural networks. The possibilities, importance and role of virtual educational systems in the context of distance education are analyzed.

Education is a purposeful activity of people aimed at acquiring and developing knowledge and skills. Important aspects in this area are the quality and duration of training. The introduction of centralized education systems, where political and economic aspects play an important role, is aimed at achieving certain competencies according to established educational standards. The development of computer telecommunications and their integration into the educational process has created opportunities for the use of various pedagogical techniques [1]. Distance learning is