ETHICAL NORMS AND VALUES IN ARTIFICIAL INTELLIGENCE AND EDUCATION: A REVIEW OF EMERGING FRAMEWORKS

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Abstract. *The present article explores the ethical and professional norms related to the use of Artificial Intelligence (AI) in education, with a particular focus on community-based research and its integration in educational settings. Drawing from a variety of scholarly sources, the paper highlights the importance of developing ethical frameworks for AI, particularly in the context of K-12 and higher education. It emphasizes the challenges in ensuring fairness, transparency, and accountability in AI systems used for educational purposes. The article also reflects on how different ethical guidelines from around the world are being implemented to guide AI in educational settings. Through a comparative review of AI ethics in education, the paper calls for a community-wide approach to establish consistent and ethical standards for AI integration into educational practices. The future of AI in education requires the development of effective ethical principles to address concerns regarding privacy, equity, and human impact.*

Keywords: Artificial Intelligence AI, education ethics, Community-based Research, AI in Education, Ethical Frameworks, Fairness and Accountability, AI Transparency, Educational Technology, AI Governance.

ЭТИЧЕСКИЕ НОРМЫ И ЦЕННОСТИ В ИСКУССТВЕННОМ ИНТЕЛЛЕКТЕ И ОБРАЗОВАНИИ: ОБЗОР НОВЫХ КОНЦЕПТУАЛЬНЫХ РАМОК

Аннотация. *Данная статья исследует этические и профессиональные нормы, связанные с использованием искусственного интеллекта (ИИ) в образовании, с особым акцентом на исследование, ориентированное на сообщество, и его интеграцию в образовательные процессы. В статье рассматривается важность разработки этических рамок для ИИ, особенно в контексте образования в школах и высших учебных заведениях. Акцент делается на проблемах обеспечения справедливости, прозрачности и ответственности в системах ИИ, используемых в образовательных целях. В статье также рассматривается, как различные этические руководства по всему миру внедряются для регулирования ИИ в образовательных учреждениях. Через сравнительный обзор этики ИИ в образовании статья призывает к созданию общинного подхода для установления единых и этичных стандартов интеграции ИИ в образовательную практику. Будущее ИИ в образовании требует разработки эффективных этических принципов для решения проблем конфиденциальности, справедливости и воздействия на человека.*

Ключевые слова: Искусственный Интеллект (ИИ), этика образования, Исследования, ориентированные на сообщество, ИИ в образовании, этические рамки, справедливость и ответственность, прозрачность ИИ, образовательные технологии, управление ИИ.

SUN'IY INTELLEKT VA TA'LIMDAGI ETIK ME'YORLAR VA QADRIYATLAR: YANGI RAMKALAR TAHLILI

Annotatsiya. *Mazkur maqola ta'limda sun'iy intellektni (SI) ishlatishga oid etik va professional me'yorlarni, ayniqsa, jamiyatga asoslangan tadqiqotlarni va ularning ta'lim jarayonlariga integratsiyasini o'rganadi. Maqolada K-12 va oliy ta'lim kontekstida SI uchun etik doiralarni ishlab chiqishning ahamiyati ko'rsatilgan. Ta'lim maqsadlarida ishlatiladigan SI tizimlarida adolat, oshkoralik va javobgarlikni ta'minlashdagi muammolar ta'kidlanadi. Maqolada shuningdek, dunyo bo'ylab turli etik qo'llanmalarning ta'lim muassasalarida SI-ni boshqarish uchun qanday amalga oshirilayotgani ko'rib chiqilgan. SI etikasi bo'yicha taqqoslashli tahlil orqali maqola ta'lim amaliyotlariga SI-ni integratsiya qilish uchun bir xilda va etik standartlarni o'rnatish uchun jamoa yondashuvini chaqiradi. Ta'limda SI kelajagi, maxfiylik, tenglik va inson ta'siri bo'yicha xavotirlarni hal qilish uchun samarali etik printsiplarni ishlab chiqishni talab qiladi.*

Kalit so'zlar: Sun'iy intellekt (SI), Ta'lim etikasi, Jamiyatga asoslangan tadqiqotlar, Ta'limda SI, Etik doiralar, Adolat va javobgarlik, SI-ning oshkoraligi, Ta'lim texnologiyalari, SI boshqaruvi.

INTRODUCTION

While incorporating artificial intelligence (AI) into education has sparked a surge of innovation, there are serious ethical questions raised by this as well. Norms and ethical principles that govern AI's use have grown increasingly important as it continues to influence teaching and learning processes. In addition to reviewing new ethical frameworks, this essay addresses the main ethical concerns surrounding AI in education and emphasizes how crucial it is to match AI technology with the principles of accountability, transparency, and justice.

Ethical Norms in Community-Based Research and Education

Ethical standards play a critical role in community-based research to guarantee that it is carried out sensibly and with consideration for all parties. Campano, Ghiso, and Welch (2015) stress that responsibility, openness, and cooperation should be given top priority in community-based research. These ideas are equally pertinent to AI education, where interactions between students, teachers, and technology creators must be based on ethics and respect for one another. Innovation and moral behavior in education must be carefully balanced, especially in light of AI. AI system design and implementation, as well as the application of these technologies in educational contexts, are governed by ethical standards. Teachers and legislators must make sure AI-driven tutoring and personalized learning systems don't reinforce prejudices and instead encourage fair results as these tools proliferate.

The Role of Fairness, Transparency, and Accountability

Fairness, accountability, and openness are some of the fundamental principles that ethical frameworks for AI in education center around. Students are protected against discrimination by AI systems on the basis of gender, socioeconomic position, and ethnicity thanks to these ideals. AI-powered learning systems, for instance, need to be made to prevent the reinforcement of preexisting prejudices, as demonstrated by the problems with algorithmic discrimination in standardized testing (Agarwal et al., 2024).

Transparency is yet another important component. Frequently functioning as "black boxes," AI systems' decision-making procedures are not always apparent or intelligible to humans. Mistrust in education can result from this opacity, especially when AI is employed to evaluate student performance or make suggestions. In order for students and educators to comprehend how decisions are made and how data is used, ethical frameworks support making these procedures more transparent (Dignum, 2019).

Accountability is also central to the ethical use of AI in education. Developers and institutions must take responsibility for the outcomes of AI applications. For

instance, when AI systems make errors or lead to unfair outcomes, there should be clear mechanisms for addressing these issues and rectifying harm (Holmes et al., 2021).

The Challenges of Ethical AI Deployment in K-12 Education

There are particular ethical issues with the use of AI in K–12 education. Akgun and Greenhow (2021) draw attention to a number of issues, including as monitoring, data privacy, and the possibility that AI would erode human agency in the classroom. AI-powered teaching technologies that monitor student behavior, for instance, may give rise to privacy issues, especially if private information is gathered without express agreement. In a similar vein, discussions concerning surveillance and the loss of autonomy have arisen as a result of the employment of AI to track students during online tests (Chin, 2021).

In K–12 education, ensuring that AI is utilized to assist teachers rather than to replace them is one of the most important ethical issues. Although AI can streamline administrative work and offer insightful information, human instructors are still necessary to promote critical thinking, emotional support, and individualized instruction. Ethical AI frameworks contend that AI ought to be incorporated in a way that honors the role of educators in the educational process and is intended to supplement human teachers rather than replace them (Lapers et al., 2021).

Regulatory Frameworks and Guidelines for Ethical AI Use

In order to address the growing ethical concerns surrounding AI in education, a number of frameworks and principles have been developed. For instance, the European Commission's proposal for AI regulation has particular clauses pertaining to AI use in educational settings (European Commission, 2021). These guidelines seek to safeguard students' rights and guarantee that AI is utilized properly.

Similarly, a thorough ethical framework comprising values like responsibility, transparency, justice, and the advancement of social good was created by the Institute for Ethical AI in Education in 2021. In order to help educators, legislators, and AI

developers make moral considerations about the application of AI in educational settings, this framework was created.

Furthermore, international initiatives that promote the development of inclusive, transparent, and student-centered AI systems include UNESCO's AI and education recommendations (Miao et al., 2021). These frameworks promote cooperation amongst global stakeholders in order to establish common ethical standards for the use of AI in education.

CONCLUSION

A careful and cooperative approach is necessary to address the ethical issues surrounding AI in education. It is crucial to make sure AI technologies adhere to fundamental ethical concepts like accountability, openness, and equity as they are incorporated more deeply into the educational system. All stakeholders may assist in addressing the difficulties presented by AI in education by putting strong ethical standards and regulations in place, guaranteeing that the technology's advantages are maximized while lowering any possible hazards.

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