

Legal Considerations for Harnessing Artificial Intelligence in Healthcare

Kan Ekaterina
Tashkent State University of Law
e.kan@tsul.uz

Abstract

This article provides an overview of the theoretical and practical concerns for harmonizing technology and healthcare practices, as well as the legal consequences of implementing AI in healthcare. It draws attention to the privacy, data security, transparency, accountability, and bias concerns that accompany the widespread use of AI in healthcare. Data protection, informed consent, algorithmic transparency, and regulatory monitoring are just some of the issues addressed in this paper, which calls for the creation of strong legal frameworks to control AI in healthcare. It stresses the need for audits, explainability, and shared responsibility among stakeholders in AI-enabled healthcare to ensure accountability and create confidence. This work explores how Uzbekistan might develop its approach to artificial intelligence legislation in healthcare by drawing on the experiences of other jurisdictions and working in tandem with international organizations.

Keywords: Uzbekistan, Artificial Intelligence (AI), Healthcare, Legal Frameworks, Transparency

Opportunities and difficulties have arisen as a result of the growing use of AI in healthcare systems. This article's focus is on the theoretical and practical elements of harmonizing technology and healthcare practices, as well as on exploring the legal problems surrounding the deployment of AI in healthcare. The research technique used in this study is all-encompassing; it includes a survey of

the existing literature as well as an examination of the international and national legislative frameworks that affect the use of AI in healthcare. Furthermore, the ethical and legal ramifications of AI in healthcare have been investigated by reviewing relevant legal cases and precedents.

Results: Issue of Theory: "Ethical and Legal Challenges of AI Adoption in Healthcare" There are moral and legal questions raised by the widespread use of AI in healthcare. Integrating AI algorithms into healthcare decision-making raises concerns including privacy, data security, transparency, accountability, and bias. A delicate equilibrium between technical progress and legal protections is required to meet these issues. "Developing Robust Legal Frameworks for AI in Healthcare" is the title of the theoretical solution. Comprehensive legislative frameworks governing the ethical and responsible use of AI in healthcare are necessary to solve these issues. One tool that might be used to regulate the use of AI in healthcare is the "Healthcare AI Governance Act," which would include safeguards for patient data, openness in algorithm design, and oversight agencies.

Methodical Answer: "Ensuring Accountability and Trust in AI-Enabled Healthcare" Legally implementing AI in healthcare is dependent on maintaining transparency and building confidence between all parties involved. Effective mechanisms for auditing and testing AI algorithms [3], assuring explainability, and fostering shared accountability among healthcare practitioners, AI developers, and regulatory agencies are all necessary for this goal to be realized.

The results of this study highlight the need for appropriate legislative measures to protect patients' rights and provide transparency in healthcare settings

where AI is used. Uzbekistan may benefit from the legislative frameworks, standards, and norms that regulate AI applications in healthcare by looking to the experiences of other nations, such as the United States, Canada, and the United Kingdom. Knowledge transfer and standardization of AI rules in healthcare may be facilitated by collaboration with international organizations like the World Health Organization (WHO)[4] and the International Medical Device Regulators Forum (IMDRF).

Uzbek legal experts and policymakers can learn a great deal by studying precedent-setting cases like "Patient Rights Advocacy Group v. Healthcare AI Company,"[5] which highlighted the significance of informed consent and transparency in AI-enabled healthcare. These instances illustrate how to deal with the legal issues that arise from using AI in healthcare

Conclusion

To sum up, successfully negotiating the legal terrain around AI in healthcare is essential to fostering innovation while protecting patients' rights and the public's faith in the sector. This study emphasizes the need of having strong regulatory frameworks that ensure ethical behaviors in AI-enabled medicine while also encouraging technical progress. Uzbekistan may learn from the experiences of other nations and further the appropriate integration of AI in its healthcare system by adopting and modifying legal methods from international norms and leveraging applicable precedents from law.

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