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Track Name: Artificial Intelligence and Machine Learning

Paper ID: 981

Paper Title: Leveraging IoT and AI Technologies for Real-Time Remote Patient Monitoring Innovations in Healthcare Delivery and outcomes

Abstract:
Smart cities, smart homes, schools, hospitals, transportation, and military operations are just a few examples of the innovative uses that rely on the IoT. When it comes to healthcare, the Internet of Things (IoT) apps really shine. They allow for secure, real-time remote patient monitoring, which improves people's lives in general. This article takes a look at how the Internet of Things has recently been used in healthcare monitoring systems. Examining the significance of IoT healthcare systems and the advantages of healthcare tech that utilizes the IoT are the main topics of this essay. In this article, we conduct a literature analysis to offer a thorough overview of current research on healthcare monitoring systems that rely on the Internet of Things. This study delves into the fascinating topic of how AI is revolutionizing healthcare systems that are built on the IoT. When it comes to improving patient care, diagnosis, treatment, and overall healthcare management, incorporating artificial intelligence into Internet of Things frameworks presents a promising horizon. This is because the healthcare industry is continuously evolving as a result of technology breakthroughs. This study delves at the current IoT deployments in healthcare and how AI could improve these systems to boost efficiency, accuracy, and patient outcomes. This research pinpoints key areas where IoT technologies driven by AI might revolutionize healthcare delivery. This is accomplished through a comprehensive literature review, case studies, and analysis of developing trends. It also discusses the difficulties and ethical considerations that are involved in the implementation of such technologies, including the protection of personal information and the confidentiality of data. More accessible, efficient, and personalized healthcare solutions may be possible as a result of these results demonstrating that AI has the potential to enhance healthcare systems based on the Internet of Things.

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