Reg. No: RJ17D0105798 ISSN NO: 2581-6403

HEB CASS

Comprehensive Advanced Specific Summarised Studies
(CASS Studies)
(An Official Publication of Bureau For Health & Education Status Upliftment)

Revolutionizing Health Sciences with Artificial Intelligence: Exploring Potential and Addressing Barriers

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ABSTRACT:

The integration of Artificial Intelligence (AI) into health sciences is revolutionizing the way we approach diagnosis, treatment, and patient care. AI technologies, such as machine learning, natural language processing, and predictive analytics, are unlocking new possibilities for more personalized, efficient, and precise healthcare. These advancements have the potential to transform medical research, streamline clinical workflows, and enhance decision-making in real-time. However, the rapid evolution of AI also brings forth significant challenges, including concerns about data privacy, algorithmic biases, and the ethical implications of AI-driven decisions. This paper explores the promising potential of AI in health sciences while addressing the obstacles that hinder its full-scale implementation. It discusses how AI can be harnessed to improve patient outcomes, optimize healthcare delivery, and support the future of medical innovation, while emphasizing the need for rigorous oversight and careful consideration of its societal impacts.

Keywords: Transformation, Artificial Intelligence, diagnosis.

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Website: http://heb-nic.in/casss-studies/	
Received on 28/07/2025	
Accepted on 30/07/2025© HEB All rights reserved	