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# "Leveraging AI Tools to Bridge the Healthcare Gap in Rural Areas in India"

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Ajit Kerketta<sup>1</sup>

<sup>1</sup>CHRIST (Deemed to be University)



Ajit Kerketta

CHRIST (Deemed to be University), Bengaluru

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## Abstract

### Introduction:

Despite considerable progress in the healthcare sector, rural areas continue to grapple with healthcare deficiencies, which eventually impact the quality of health outcomes. However, the emergence of AI technology offers promising solutions to overcome these hurdles. Hence, the study explores the potential and efficacy of introducing artificial intelligence (AI) tools to address the healthcare disparity in rural India.

### Methods:

The research employed a literature review method and gathered data from various databases such as Science Direct, PubMed, and Google Scholar. The screening process was aided by the Rayyan electronic software. Articles published in

English between January 2020 and December 2022 were selected, followed by a thematic analysis of the findings.

### Results:

Results indicate the potential of AI in rural healthcare settings, showing AI-driven solutions addressing healthcare access gaps and contributing to their bridging. The study also highlights hurdles related to AI tool adoption in rural healthcare and proposes collaborative efforts among policymakers, healthcare providers, and technology developers to integrate AI tools

effectively. This necessitates advocating for digital infrastructure investments, capacity-building initiatives, and conducive regulatory frameworks for AI implementation.

**Conclusion:** The study underscores AI's transformative role in bridging the healthcare gap in rural India. By harnessing AI technologies, healthcare providers and policymakers can surmount barriers, empower local healthcare workers, and improve health outcomes for rural communities. The insights and recommendations contribute to the evolving knowledge base on leveraging AI for adequate healthcare delivery, guiding future initiatives in similar contexts.

### Keywords:

Artificial Intelligence, Healthcare gap, Rural areas, remote patient monitoring, healthcare outcome.



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