Artificial Intelligence in Healthcare

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Abstract*: This report explores the transformative role of Artificial Intelligence (AI) in the healthcare industry. AI technologies such as Machine Learning, Natural Language Processing, and robotics have revolutionized healthcare delivery by improving diagnostics, personalizing treatment, and enhancing operational efficiency. This study reviews recent advancements, examines methodologies employed in AI applications, discusses challenges like ethical and regulatory concerns, and analyzes the potential long-term impacts of AI on healthcare systems. The findings suggest that while AI has immense potential, a balanced approach considering ethical issues and robust policies is critical for its integration..*

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