

Big Data Analytics in Healthcare Systems

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Abstract. This article explores the application of big data analytics in healthcare, focusing on the potential to improve patient outcomes and operational efficiency. By analyzing large datasets, healthcare providers can identify trends and patterns that inform clinical decisions and policy-making. The study highlights key innovations in data processing and the integration of analytics into healthcare systems, contributing to more personalized and effective care.

Keywords: big data, healthcare systems, data analytics, patient outcomes, clinical decisions

Introduction

The healthcare industry is increasingly turning to big data analytics to enhance patient care and operational efficiency. This paper delves into the impact of big data on healthcare systems, examining how large-scale data analysis can lead to better clinical outcomes and informed policy-making. By processing vast amounts of data, healthcare providers can uncover trends and patterns that were previously inaccessible. This research highlights the innovative ways in which analytics are being integrated into healthcare systems, promoting personalized patient care and more efficient resource management. The study underscores the transformative potential of big data in revolutionizing healthcare practices and improving overall health outcomes.

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