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## Harnessing Data Lakes for Global Maintenance Service: Insights and Improvements through Advanced Data Analysis

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In the era of big data, organizations are increasingly leveraging data lakes to store vast amounts of unstructured and structured data. This paper explores the transformative potential of data lakes in the context of global maintenance services.

By integrating advanced data analysis techniques, we aim to uncover actionable insights that drive service improvements across various locations and technologies.

Our study examines the methodologies for effective data lake management, the challenges of data integration, and the benefits of real-time analytics in maintenance service operation. Through case studies and empirical data, we demonstrate how digital transformation in maintenance can achieve significant performance enhancements and maintain a competitive edge in the global market.

This research contributes to the growing body of knowledge on data-driven decision-making and offers practical recommendations for leveraging data lakes to optimize service delivery.

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