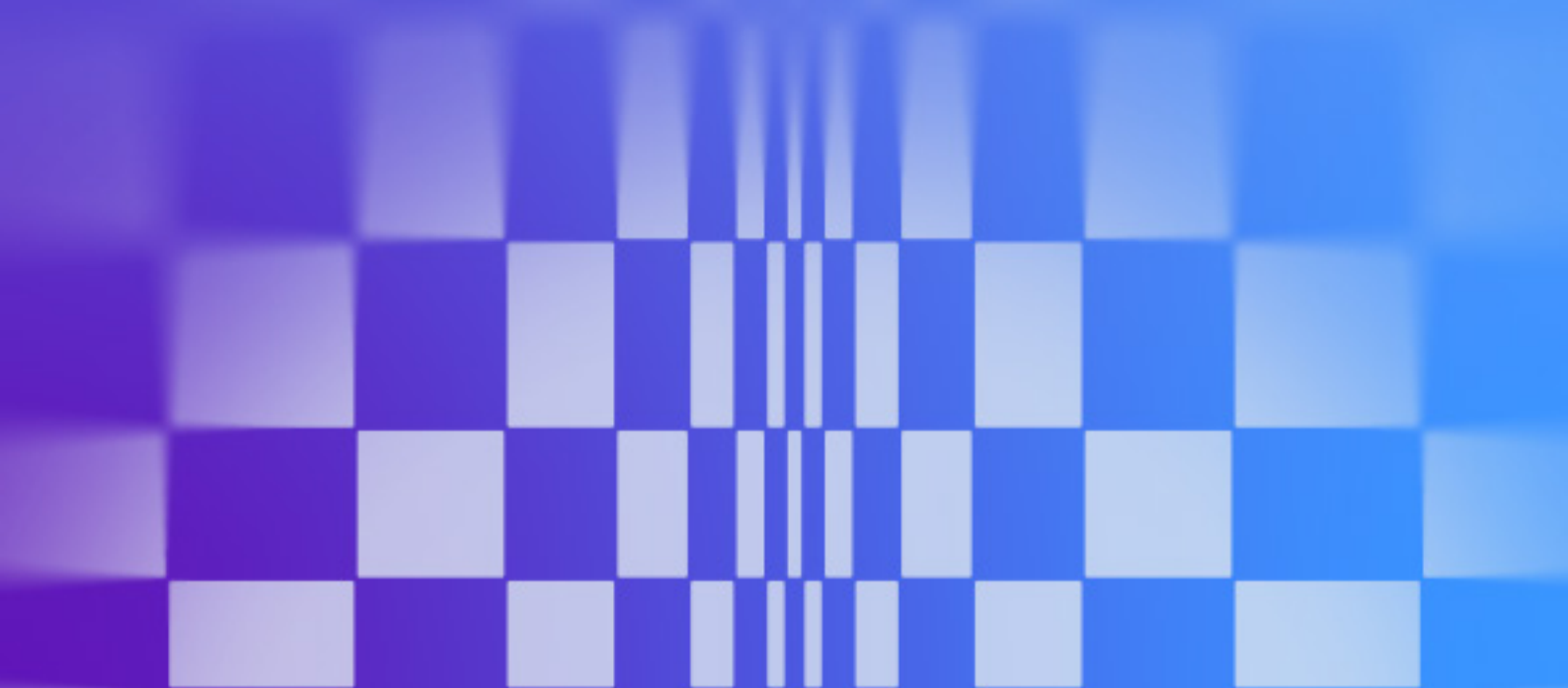


Data modernization brings a unified view for transformation to a Fortune 500 power generation company

HCLTech helps monetize and reduce the duplication
of data assets via a data lake platform



A Fortune 500 multinational corporation, specializing in power generation and heavy electrical equipment manufacturing, found its growth stifled by poor monetization and duplication of data assets. HCLTech helped to set up a cloud-based data lake and created new efficiencies and capabilities that helped the client achieve higher scalability, performance and profitability.

The Challenge:

Overriding inadequacies to unlock the power of data

The company had multiple business units, each of which was operating in silos. The delay in exchange of business intelligence between these units and fragmented data was impeding the company in generating business value. The absence of a centralized data management

platform was negatively impacting data infrastructure utilization. In addition, the duplication of data assets with varying data quality and inconsistencies was making it very hard for the company to monetize them.



The Objective:

Embarking on a data modernization journey

The power generation company chose HCLTech to help solve this challenge through the delivery of a data modernization strategy, building on HCLTech's comprehensive data engineering capabilities powered by a modern data architecture to extract business value. It needed to make data available and accessible

at the right time, improve business performance, reduce operational cost and improve data security.

This required a complete transformation in the way data was collected, managed and consumed across business units.

The Solution:

Integrated approach to deriving greater value from data

HCLTech enabled the company to set up a cloud-based data lake which unified data collection, management and consumption across business units. By doing so, it accelerated IoT data ingestion and ensured that high-quality data was made available to the client, according to the various

business needs. This data modernization strategy ensured scalability through data lake and performance testing to cater to thousands of devices at a speed of 50K data writes per second. The team also enabled data security and role-based access control for data infrastructures in each business unit.

The Impact:

Converting data assets into growth opportunities

With HCLTech's robust data lake creation, the client achieved new levels of data efficiencies and enterprise performance.

This led to reduced data latency issues, with time taken from ingestion to consumption reduced to less than 30 seconds. This lower data latency resulted in higher performance, improved operational costs and a 100% reduction in data loss. The data modernization journey produced highly scalable data systems

that helped the client break down silos and bring in data from existing and new business units, while the improved flexibility catered to changing business dynamics, such as the merger and acquisition of various external business units. Ultimately, this transformation enabled a unified view of data systems through metadata, data log and improved data security, while eradicating data duplication in collection and processing.

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