LTIMindtree

Empowering Global Health: Cutting-Edge Analytics for Healthcare Manufacturing

Client profile

Our client, a prominent healthcare company, is committed to improving global health outcomes. Through the merger of two major businesses in November 2020, they now harness scientific, manufacturing, and distribution expertise to deliver high-quality medicines to patients in over 165 countries.

Business challenges

The manufacturing network lacked a scalable analytics platform.

Centralized key performance indicators (KPIs) were absent, hindering data trust and analysis for manufacturing teams.

The solution needed alignment with foundational and business unit-level requirements, incorporating data from multiple sources.

Analysts had limited data query abilities for data export or custom report generation.

The existing system lacked ad hoc reporting features across datasets.

LTIMindtree solution

01 LTIMindtree implemented a configuration-driven data engineering transformation framework using Databricks.

02 Reduced coding needs for new dataset additions by utilizing a metadata-driven approach.

03 Leveraged Databricks engine to meet the client's data platform load timing requirements, completing end-to-end load within four hours instead of the initial six-hour requirement.

04 Implemented complex transformation rules across different datasets within the organization.

05 Developed global reports with rich visualizations, incorporating site-level and global security roles for data visibility.

06 Enabled self-service reporting through a unified cube and implemented data quality checks and exception handling using Databricks.

Business benefits

Integrated data from enterprise resource planning (ERP), lab, and quality systems for real-time data visibility and operational efficiency.

Globalized scorecards provided accurate reports on KPIs including finance, supply chain, quality, and environmental health and safety.

Plant maintenance-based reports improved productivity and spare parts tracking.

Six Sigma-based reports enhanced manufacturing operations.

User-friendly Microsoft tools ensured accessibility and ease for all stakeholders.

Insights streamlined processes, shifting focus from data collection to actionable outcomes.

Prepared for future growth with additional data sources and real-time business intelligence.

Met good manufacturing practice (GMP) requirements for data platform validation and regulatory standards.