

CASE STUDY

Transforming a Manufacturing Enterprise into a Data-Driven Powerhouse



Client

The client is a global leader in elevator and escalator manufacturing and generates over USD 12 billion annually.

Challenges

- The current Business Warehouse (BW) reports were slow in generating results.
- There was a need to transition to a mature data-driven operating mode.
- A cloud data warehousing and analytics solution was required to harness the power of cloud computing for significant data transformation.
- Data required transformation, standardization, and quality control.
- There was a need for integration and migration of big data to the cloud.

LTIMindtree Solution

- Databricks, with its Spark engine and massively parallel processing (MPP) power, excelled in processing big data quickly.
- It helped transform large datasets into a standard data model through its medallion architecture.
- Databrick's medallion architecture, a data design pattern was utilized to organize data logically.
- This architecture was implemented to incrementally and progressively improve the structure and quality of data as it flows through each architecture layer (from bronze to silver to gold layer tables).

Business Benefits

Reduced the Extract, Transform, and Load (ETL) time from **26 to 6 hours**

Handled over **50 million** incremental data daily with improved quality using Delta Lake in Databricks

Delivered business reports faster, with more accuracy, and better quality

Increased the adoption of PBI reports and enabled the movement of users from BW reports to PBI reports



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