

Creating a NextGen Data and Analytics Ecosystem for a Leading Global Battery Manufacturer

# Challenges faced

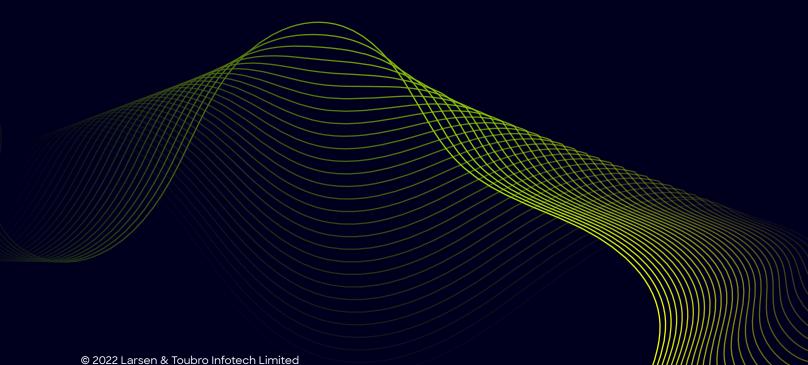
Our client, a major global battery manufacturer, wanted to create an easy-to-use modern data and analytics platform to enable rich data engineering and advanced analytics capabilities. This was crucial to ensure a rich end-user experience and democratize data and analytics across the organization. Moreover, the client was looking at integrating these analytics solutions into the business processes to make the processes smarter. To serve their business requirements, we had to build a scalable, high-performance cloud-based ecosystem that could connect to data from various systems and across various applications.

#### Our solution

Spectra was leveraged as a data integrator for the Snowflake Cloud Platform to enable the shift from a siloed application architecture to an integrated user experience-driven architecture. It also provided an integrated platform for faster data orchestration.

### Here are some features of the "pragmatic transformation approach"

- Created a unified data platform to cater regional and global enterprise data needs;
   the platform comprised operational reporting, self-service analytics, and data science capabilities on hyper distributed data
- Performed better than competition as a data integrator for Snowflake and executed platform data pipelines with 90% more efficiency than the existing ETL platform
- Used Snowflake as an effective cloud warehouse to store data, with consistent
  metadata and metric definition to ensure a single version of truth; Snowflake's data
  encryption and decryption features improved trust in the system, which provided high
  scalability and performance by managing pushdown data transformation using
  Spectra's cloud-native architecture
- Strengthened the cloud-doption strategy through Spectra's PaaS deployment on cloud, along with Snowflake's cloud-native architecture



# **Business impact**

The implementation of Spectra and Snowflake Cloud Platform enabled faster decision -making for the client by providing data-and-analytics-as-a-service to maintain and consume data. It also provided data encryption and decryption capabilities to control data, increased productivity manifold, and improved ROI significantly.

### Additionally, it offered the following business benefits to the client



reduction in batch processing time



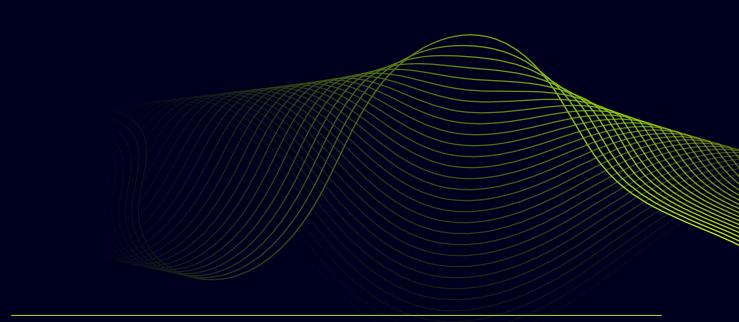
80% reduction in batch failures



90% efficiency in design efforts



Significant increase in battery sales revenue



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