Creating a next-gen data and analytics ecosystem for a leading global battery manufacturer

Challenges

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.

Solution

The Fosfor Decision Cloud 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 the Fosfor Decision Cloud's cloud-native architecture

- Strengthened the cloud-doption strategy through the Fosfor Decision Cloud's PaaS deployment on cloud, along with Snowflake's cloud-native architecture

Impact

The implementation of the Fosfor Decision Cloud 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.

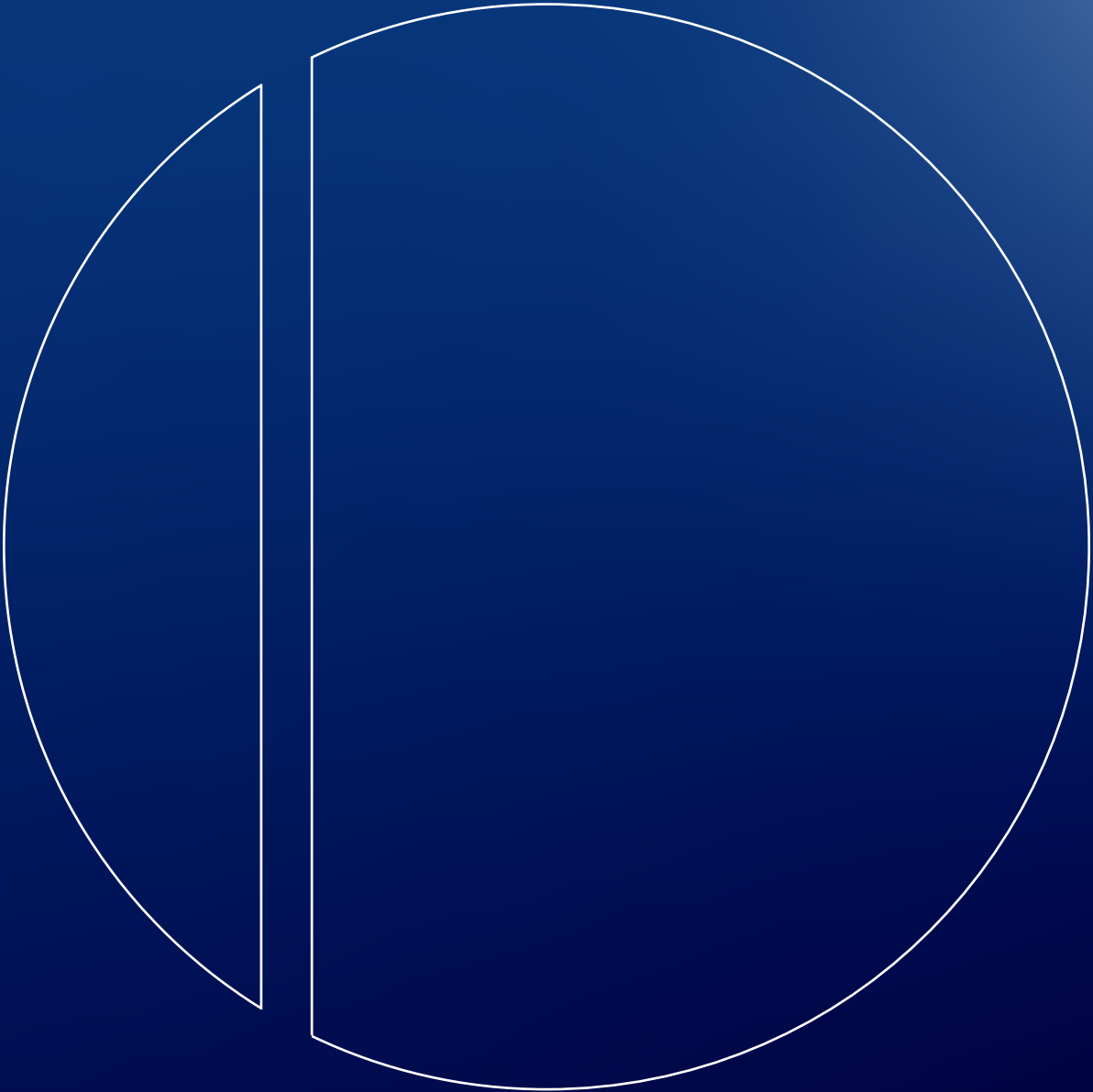Additionally, it offered the following business benefits to the client:

80%
reduction in batch
processing time

90%
efficiency in
design efforts

80%
reduction in
batch failures

spectra

The Fosfor Decision Cloud is a connected fabric that unifies and amplifies the value promised by the modern data ecosystem, which is made up of infrastructure, data, and application clouds. Fosfor enables organizations to effectively curate data, generate impactful insights, and formulate effective decisions to deliver the long-sought promise of data and AI: optimal business outcomes. Fosfor is part of LTIMindtree, a global technology consulting and digital solutions company. For more information, visit www.fosfor.com.

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