



CASE STUDY

Modern Data Lakehouse for a Leading Global Airlines to Help Realize the Vision of a Data-Driven Company



Client

The customer is one of the biggest airlines worldwide and a leading European airline group. They continue to play a part in shaping the global airline market and setting standards for customer friendliness and sustainability. They use the potential of innovation and digitalization to develop customer-focused products and increase efficiency.

Challenges



Optimize business cases economically



Minimize bottlenecks in existing fragmented business intelligence processes



Set scalability and elasticity limitations to deploy advanced analytics use cases



Process unstructured data such as images, text, spoken language, and audio files



Set up operating cost models for data and analytics tools and technologies

LTIMindtree Solution

01 | Leveraged data and analytics services partner to implement a modern data platform on Azure Cloud and Databricks to deliver high-performance Business Intelligence, Data Science, and AI use cases

02 | Developed business processes aligned data models on Databricks to support the development of new data science projects

03 | Deployed framework-based data assets and models for scalability, flexibility, handling business-critical workloads, and accelerating the deployment of those projects in production

04 | Built a scalable NextGen Azure Native Data platform for flexibility, agility, operational efficiency, improving self-service, and advanced data use cases

05 | Designed and implemented verticalized data products with a highly modular design to support data science and advanced analytics use cases

06 | Set up data management for data sets like Revenue and Commercial, Pricing, Technical Operations, and Airlines Operations

Business Benefits



Empowered employees better through data and analytics while achieving operational excellence

2.5x

increase in speed of delivery of Business Intelligence reports and dashboards



Established One Data Platform to enable commercial operations to assist passengers with personalized services before, during, and after their flights



Migrated data volumes of about **150 TB** to Azure and Databricks for Reporting, BI, and Data Science use cases



Delivered data science and AI/ML use cases for key process areas such as Operations Control, Punctuality Management, Turnaround Management, Baggage Management, Fuel Management, Quality Management, and Weight and Balance

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