



For a financial sector firm

We boosted efficiency by 70% with a modern MLOps platform for trade surveillance.

A Ccube Case Study



Problem Statement



Legacy ETL pipelines were slow, complex, and prone to data quality issues



Fixed-time scheduling caused data mismatches and delayed processing



Lack of real-time triggers limited accuracy in trade surveillance



High operational overhead from fragmented tools and manual workflows



Solution

- » Scalable MLOps platform on AWS for trade surveillance
- » Event-driven architecture for real-time data triggers
- » Python-based ETL framework replacing legacy KDB+ pipelines
- » Databricks integration for faster, scalable analytics
- » CI/CD support for 300+ code repositories with bi-weekly releases

Our Tech Stack

Python

Java

KDB+

Oracle

Athena (Hydra DB)

Databricks

AWS S3

NAS

Giga

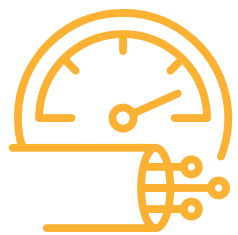


Process



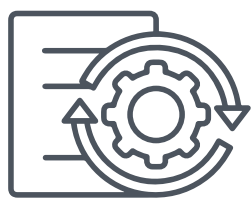
Replaced fixed-time schedulers with Kafka-based event-driven triggers

Migrated legacy ETL pipelines from KDB+ and q scripts to Python



Integrated Databricks for scalable, high-speed data processing

Transitioned to Oracle DB for improved reliability and data integrity



Deployed robust MLOps workflows to support real-time model deployment



Impact

- » **70% increase** in operational efficiency
- » **40% reduction** in cloud infrastructure costs
- » **30% improvement** in model accuracy
- » **40% faster execution** time with Databricks integration
- » Real-time processing of **300M transactions, 150K monthly alerts, & 800 daily feeds**





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