

Redefining Compliance: A Shift from Legacy Bottlenecks to Real-Time Vigilance

Modernized with AWS and Databricks for Speed, Scale, and Efficiency

A leading global financial institution with operations spanning multiple regions set out to modernize its data infrastructure in response to fast-evolving regulatory and operational requirements. While its legacy on-prem data warehouse and custom ETL tools had long supported its compliance framework, they were now stretched thin by the growing complexity of Anti-Money Laundering (AML), Know Your Customer (KYC), and transaction monitoring needs. The institution recognized the need for a scalable, secure, and future-ready data strategy to continue delivering compliant and efficient services globally.

Challenges

As a trusted financial institution with a global footprint, it was committed to strengthening its Compliance framework and enhancing transaction monitoring, case management capabilities. The bank needed to address several critical compliance and technology challenges:

Strained infrastructure performance due to exponential data growth and increasing transaction volumes.

Scalability and modernization limitations from in-house legacy tools resulting in rising maintenance overhead.

Evolving regulatory pressure demanding an agile, cloud-enabled compliance ecosystem that could rapidly adapt to change.

Solution

Xoriant collaborated with the bank to architect and implement a modern, cloud-native compliance solution using Databricks on AWS—delivering intelligence, automation, and speed at scale. Key solution highlights included:

Enabled real-time fraud detection

and reduced false positives with intelligent, rule-based monitoring engines.

Deployed AI-powered bots

to automate compliance policy checks, rule interpretation, and query resolution.

Advanced Risk Detection

from on-prem to Databricks, optimizing models using Delta Live Tables.

Rebuilt ETL pipelines, dashboards, and alerts

to support real-time monitoring and reporting.

Provisioned secure, multi-environment AWS infrastructure

and prioritized critical workloads for migration.

Built in-house capability

with structured training on Databricks, AWS, and Delta Lake, supported by detailed technical documentation.

Business Value



48 hours to seconds

driving 50% faster dashboard performance.



Accelerated delivery cycles

through 50% reduction in manual testing via automation.



Lowered infrastructure costs

with AWS's Pay-As-You-Go model.

Technology Stack

Databricks on AWS, Databricks Notebook | Apache Airflow | Spark, Scala, Python, Py-Spark | AWS Services | Oracle, Unix | GenAI - Large Language Models (LLMs)

Xoriant provides advanced technology solutions and software development services for global banks, software product companies and F500 market leaders. Based in the U.S. with 18 global offices and 5000+ engineering professionals, Xoriant demonstrates exceptional experience in banking and finance infrastructure modernization and cloud migration. We deliver expert digital engineering, as well as offsite and offshore services, across high tech, healthcare, pharma, industrial manufacturing, telecom, and automotive sectors. Customers credit technological innovation and delivery excellence for our shared success over three decades.