

Data Validation and Quality Reporting Platform for Financial Organization

About the Client

We collaborated with a client in the FinTech industry to enhance their data analytics platform. The platform is designed to validate data from multiple sources and generate quality reports, helping users assess the reliability and accuracy of their datasets. The platform's primary users are financial organizations, including banks, that rely on precise data quality checks to make critical business decisions.

Technologies Used

Cloud: Azure

MLOps: DVC, MLFlow

Machine Learning: TensorFlow.NET, Accord.NET

DevOps: Kubernetes (k8s)

Database: MongoDB, PostgreSQL, Redis

Frontend: React

Messaging/Queueing: RabbitMQ

Testing: E2E Playwright tests

Team Composition

- 2 Full-stack Developers
- 1 DevOps Engineer
- 1 QA Engineer
- 1 Project Manager

RESULTS AND ACHIEVEMENTS



Improved System Performance

The refactoring of the platform's architecture led to significant improvements in both performance and scalability. By optimizing workflows and streamlining backend processes, the new platform is faster and more efficient, allowing financial organizations to handle larger volumes of data with greater ease.



Customization and Flexibility for Clients

The transition to a more modular and scalable infrastructure now enables the platform to offer more tailored solutions to clients.



Cost Reduction

Simplified architecture and optimized data processing reduced the overall operational costs.



Enhanced Stability

Comprehensive unit and E2E Playwright tests ensured that critical defects were identified and resolved early in the development process, resulting in fewer errors and improved system stability.