

Case Study: Automated Financial Data Integration Platform



Overview

A leading European financial technology provider sought to eliminate manual processes in gathering, validating, and distributing regulatory and authority financial data. The goal was to create a fully automated pipeline that could transform raw authority information into high-quality, normalized datasets ready for integration with customer ERP systems.

Challenge

The organisation faced inefficiencies in manually collecting and validating financial data from multiple authority sources. Data inconsistencies, format variations, and human error led to delays and reduced confidence in the accuracy of outputs. Customers required reliable, real-time data feeds directly into their ERP environments, but existing processes were slow and error-prone.

Solution

An AI-driven automation platform was developed to manage the entire lifecycle of authority financial data. The system automatically gathered data from verified sources, applied normalization rules to standardize formats, and implemented automated error handling to ensure data integrity. Machine learning models were used to detect anomalies and correct inconsistencies before data reached downstream systems. All while connected to authoritative data sources for provenance for all responses to prove the quality of the data.

The platform also introduced automated data feeds to customer ERP systems, enabling seamless integration and eliminating manual intervention. Each feed was version-controlled, validated, and accompanied by a signed data manifest to guarantee provenance and compliance.

Results

- Reduced manual data handling by over 70%
- Achieved daily updates from authority sources
- Improved data accuracy and consistency across all financial datasets
- Delivered automated ERP integration with zero manual post-processing
- Enhanced customer trust through transparent data lineage, provenance and validation

Impact

This automation initiative transformed the organisation's data operations, enabling scalable, high-quality financial data delivery. The platform now serves as a foundation for future AI-enabled compliance and reporting solutions, setting a new benchmark for efficiency and reliability in financial data management.