

Financial Services: Real-Time Fraud Detection & Risk Scoring

The Hook: Stopping fraudulent transactions before they clear, without slowing down the customer.



The Challenge

A fintech provider was losing millions to sophisticated fraud schemes. Their legacy rule-based system had high false-positive rates, frustrating legitimate customers.



The MeridianSoft Solution

We engineered a real-time anomaly detection pipeline using **Google Cloud Dataflow and Pub/Sub**. By deploying **Machine Learning models on Vertex AI**, we enabled the system to analyze 50+ data points per transaction in under 200 milliseconds.

The Impact

40% decrease in successful fraud attempts

within the first quarter.

30% reduction in false positives

significantly improving customer satisfaction scores (NPS).

Automated Regulatory Compliance

with built-in audit trails for AML/KYC mandates.