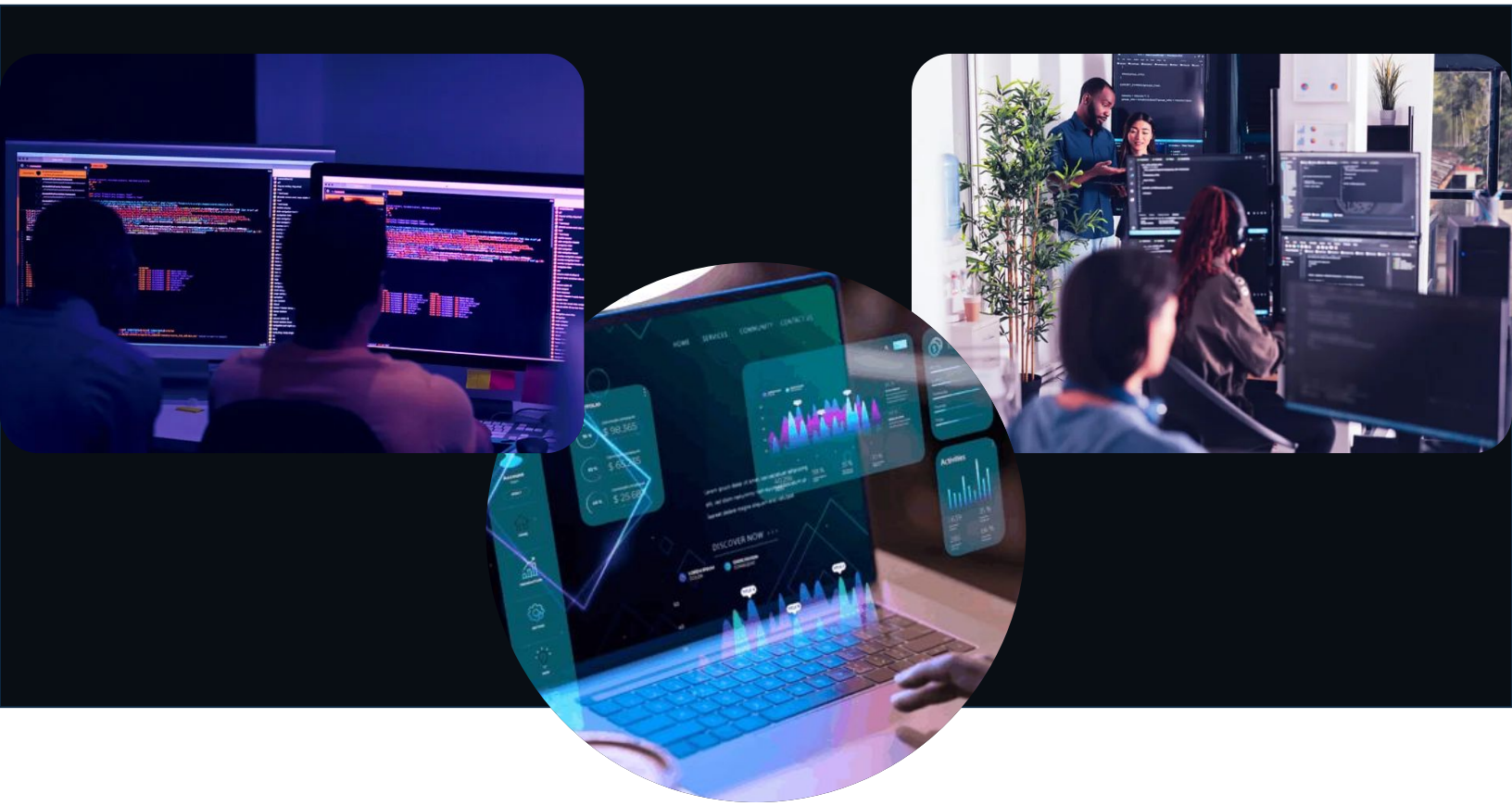
CodeRoad



Driving faster, real-time insights

Transforming a scalable data platform for data processing enablement.

Presented by CodeRoad | February, 2026

Executive Summary

We partnered with a leading technology company specializing in artificial intelligence and advanced data analytics solutions to modernize their data ingestion platform and accelerate analytics performance.

Legacy PHP-based jobs that processed data over multiple days were replaced with a scalable, cloud-native architecture built on Databricks. The migration was completed on time and without disruption, significantly improving data freshness, reliability, and scalability. As a result, they now operate on a modern data platform that supports faster insights and future AI-driven analytics.

The Challenge

The company's primary application ingests data from multiple external providers and sources. Previously, this ingestion process relied on **legacy PHP-based jobs**, which were slow, resource-intensive, and increasingly difficult to scale. End-to-end processing could take **several days**, limiting data freshness and slowing downstream analytics and decision-making.

The Solution

CodeRoad partnered with them to modernize the ingestion layer by **migrating all data ingestion processes from PHP jobs to Databricks**. The migration was an accelerated end-to-end outcome, delivered ahead of schedule and without major incidents, ensuring continuity for business-critical analytics.

By leveraging Databricks' distributed processing capabilities, the new architecture dramatically improved ingestion speed, scalability, and reliability while establishing a future-ready data foundation.

A Velocity Roadmap for Scalable Architecture.

The team successfully completed a full data ingestion migration on time, replacing slow and fragile legacy PHP jobs with a modern, scalable data processing platform. What once took several days to run was re-architected into efficient, distributed pipelines, eliminating long ingestion cycles and removing a major bottleneck in the analytics workflow.

This modernization delivered immediate business value. Data now arrives faster and more reliably, significantly improving data freshness across the platform. With stable, high-performance ingestion pipelines in place, downstream analytics and reporting can operate with greater confidence and consistency.

Beyond short-term gains, the new architecture establishes a strong foundation for future growth. The platform is now built to scale as data volumes increase and is ready to support advanced analytics and AI-driven workloads, enabling smarter decision-making and long-term strategic impact.

Technology in action

Databricks

for distributed, scalable data ingestion and processing

Modern Data Pipelines

for faster ingestion from multiple providers and sources

Cloud-Native Data Processing

for improved performance, reliability, and elasticity

Modern Migration Patterns

for safely transitioning critical workloads without disruption

Talent + Acceleration + Clarity

To unlock the speed required for modern AI-driven analytics, CodeRoad replaced the company's legacy ingestion jobs with a high-performance, cloud-native architecture. We moved beyond "functional parity" to engineer a platform built for massive, elastic scale:

- **Databricks Migration:** Replaced resource-intensive, legacy PHP-based ingestion jobs with a distributed **Databricks** environment, leveraging Spark for parallelized data processing.
- **Modern Data Pipelines:** Architected and deployed automated ingestion flows capable of handling massive volumes from multiple external providers and sources simultaneously.
- **Cloud-Native Elasticity:** Engineered the platform to utilize auto-scaling cloud compute, ensuring they only pay for the performance they need during peak ingestion windows.
- **Zero-Disruption Transition:** Managed a high-stakes migration of critical workloads to the new architecture on schedule, ensuring no loss of data or service continuity.

Engineered Momentum

CodeRoad's Business Impact by the numbers

100% reliable ingestion. We eliminated the fragility of legacy scripts, creating a resilient pipeline that handles multi-source ingestion with zero manual intervention.

AI-Ready Foundation Modernized the ingestion layer to support the high-velocity data requirements of their advanced AI and analytics modules.

100% scalable. The new architecture allows them to scale user and data volume without the linear increase in processing time or management overhead.

How CodeRoad can help you accelerate

CodeRoad delivers Velocity-as-a-Service (VaaS) by replacing legacy bottlenecks with cloud-native acceleration. We partner with you to transform multi-day data processing jobs into real-time ingestion engines powered by Databricks and Spark. By modernizing fragile PHP-based workflows into a distributed, elastic architecture, we provided the sub-minute data freshness required for advanced AI-driven analytics. CodeRoad's systems are engineered to provide the high-speed data foundation necessary for market-leading intelligence at scale.

Strategic Technology Solutions

- Cloud modernization & rightsizing
- GCP, AWS, Azure engineering
- Infrastructure as Code & automation
- Kubernetes & container orchestration
- Observability & cost intelligence
- FinOps governance frameworks
- Data engineering & integrations

AI Impact Report

Discover how to identify and bridge the organizational maturity gaps that cause 80% of AI initiatives to stall before production. Get the latest on:

- Failure Patterns
- Strategy Alignment
- Governance Frameworks
- Execution Clarity
- Talent Scarcity
- Measurable Value
- Maturity Assessment

Your testing should move as fast as your roadmap.

Book Assessment Call

1-954-866-3473
contactus@coderoad.com
CodeRoad.com