



Shaping Healthcare Possibilities

CitiusTech modernized 10 business applications for an Integrated Pharmacy, Care and Benefit Solutions Provider using AWS Databricks



Client Overview

A leading US-based Integrated Pharmacy, Care and Benefit Solutions Provider, operating under a hybrid business model, faced challenges with legacy Hadoop systems that hindered data processing and reporting efficiency. To address these issues, the organization partnered with CitiusTech to modernize its data infrastructure using AWS and Databricks. This transformation enabled improved performance, enhanced data governance, and cost optimization across 10 critical business applications, driving measurable outcomes and operational agility.

Business Challenge

Legacy systems hinder performance and compliance

The client's legacy Hadoop-based solution struggled to manage large and complex datasets, leading to **slow** and **inefficient** reporting and data analysis. Additionally, the absence of centralized control over **data privacy** posed significant risks to compliance and **security**.

To meet evolving business needs, the organization aimed to:

Reduce
infrastructure
costs

Improve
performance and
response times

Strengthen data
governance and
privacy controls



CitiusTech Solution

Cloud-native transformation with AWS and Databricks

CitiusTech enabled the client's transition to a cloud-native architecture by leveraging AWS and Databricks services. The solution modernized data ingestion, storage, processing, and governance across 10 business applications.

Key components of the solution:

Data Ingestion from
5 diverse sources

Delta Lake for
reliable data
storage and
processing

**Databricks Unity
Catalog** for
centralized data
access control,
auditing, and
governance

Technologies used:

Databricks Services:

1. PySpark Notebooks for data transformation and processing
2. Delta Lake for scalable and reliable data storage
3. Unity Catalog for unified governance

AWS Services:

1. S3 for scalable storage
2. Lambda for serverless real-time processing
3. Glue for data cataloging
4. Auto-scaling to optimize compute resource usage

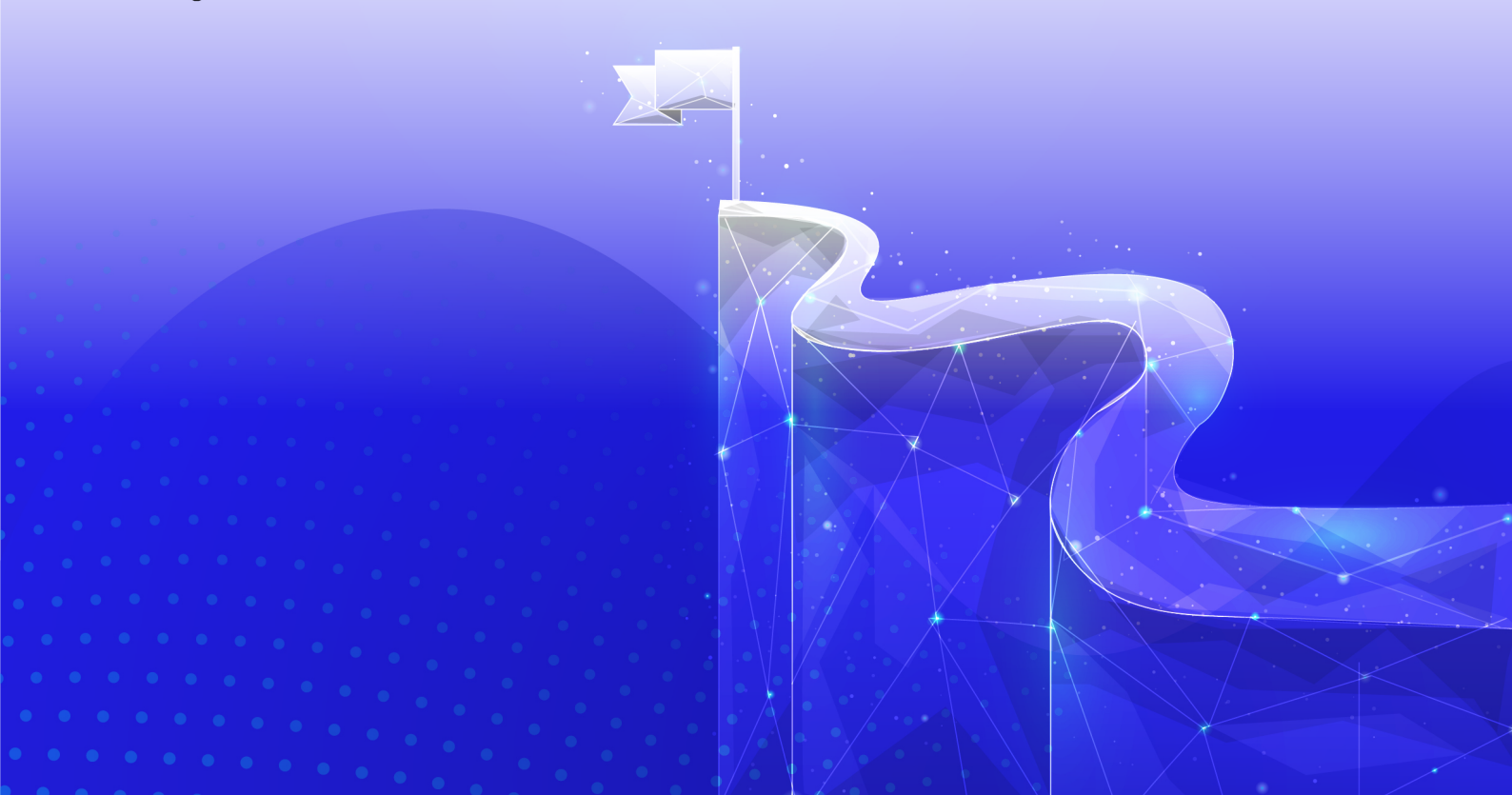


Benefits Delivered

Driving performance, governance, and cost efficiency

With CitiusTech's solution, the client achieved significant improvements across infrastructure, performance, and user experience:

1. **25% reduction in infrastructure cost** by decommissioning legacy applications
2. **50% improvement in performance response time** for key jobs due to enhanced data processing speeds
3. **Improved governance** through Databricks Unity Catalog, offering a unified view of data access policies and security
4. **Enhanced performance of 10 business applications**, ensuring faster processing and improved user experience
5. **Revenue leakage detection** and improved customer feedback mechanisms
6. **Smart search capabilities** for healthcare professionals and relevant articles
7. **Accelerated scale-up** of data applications across consumer apps with robust governance





Shaping Healthcare Possibilities

About CitiusTech

CitiusTech is a global technology services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable. Leveraging deep domain expertise and next-generation technologies including AI, Cloud, Data, and Intelligent Automation, we assist our clients in realizing their vision, accelerate transformation, and achieve business outcomes. With 7,700+ healthcare technology professionals worldwide, CitiusTech powers digital innovation, business transformation, and industry-wide convergence through next-generation technologies, solutions, and products. Follow CitiusTech on Twitter or LinkedIn.

www.citiustech.com