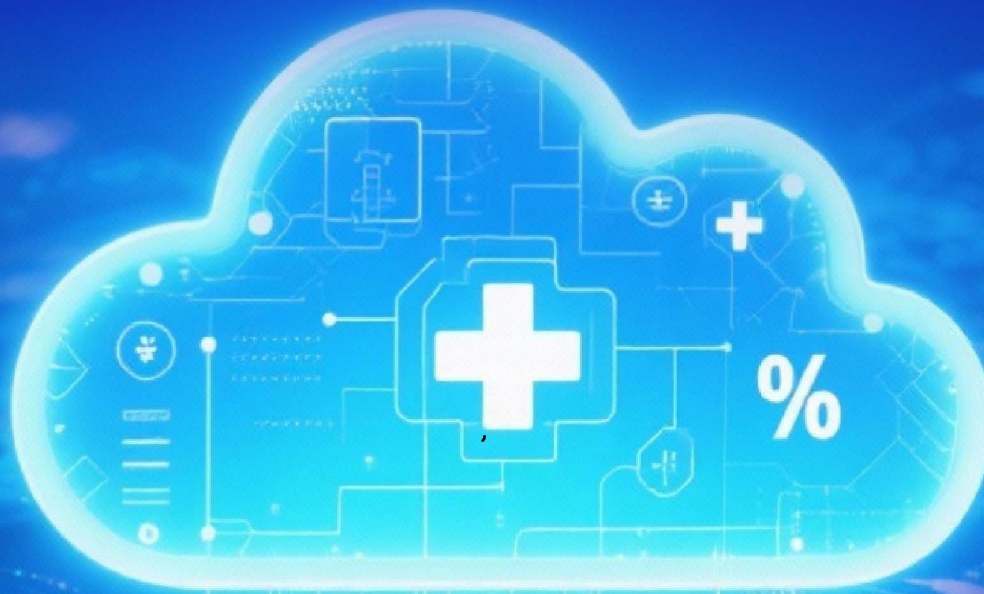


Modernization of Core Spend Management Application for a Leading Group Purchasing Organization (GPO) using Azure Databricks



Client Overview

A leading U.S.-based B2B Group Purchasing Organization (GPO), representing over **5,000 not-for-profit health system members** and their affiliates, partnered with **CitiusTech** to modernize its mission-critical, on-premise Spend Management and Membership Management applications. The legacy platform, which processed more than **300 million data points**, faced significant performance challenges due to complex calculations and high data volumes. These limitations directly affected the accuracy and timeliness of spend forecasting for its clients.

Business Challenge

Legacy systems hinder performance and forecasting accuracy

The client's on-premises application had a calculation engine built on .NET and SQL, which struggled with intense computation and large datasets. This led to:



The organization aimed to:



CitiusTech Solution

Cloud-native transformation with Azure and Databricks

CitiusTech enabled the client's transition to a modern cloud-native architecture using Azure and Databricks. The solution involved:

Rewriting the calculation engine logic from .NET and SQL to Databricks

Setting up CI/CD pipelines for all pipeline components and infrastructure

Migrating on-prem databases to Azure cloud

Databricks Services used:

1. Delta Lake
2. Delta Tables
3. Workflow

Azure Services used:

1. Azure Databricks
2. Azure Data Factory
3. Azure SQL DB
4. Azure .NET



Benefits Delivered

Driving performance, scalability, and forecasting accuracy

1.

Calculation engine
runtime reduced from
27 hours to 4 hours

2.

Improved scalability
and performance
through cloud
migration

3.

Enhanced data
governance and
reporting by breaking
down data silos

4.

Accurate inventory
forecasting for 37
months

5.

Faster data
processing, aiding
procurement
operations

6.

Modernized core spend
management platform,
improving client
outcomes





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.

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