

A leading medical management solution provider for healthcare systems and pharmacies leverages **Azure Machine Learning Service** to reduce **TCO** and **Improve Productivity**



Background

The customer builds advanced patient engagement, financial management, and population health technology solutions that enable retail pharmacies to improve their patients' health while ensuring the long-term health of their business.

Business Challenge

The healthcare organization offers the industry's most comprehensive suite of SaaS technology solutions to transform and thrive in the new era of digital-driven healthcare. They wanted to build an **AI-powered organization** and move cloud workloads for AI from AWS to Azure to **gain cost-efficiencies**.

The organization wanted to develop Machine Learning models that enable them from the development to production with the right blend of architecture tools, infrastructure, feature store for CI/CD, and build a robust and scalable environment.

Key challenges

- Identify the right architecture for CI/CD integrations for MLOps and DataOps pipelines for production migration deployments and scale the ML models
- How to build Azure MLOps end-to-end CI/CD ML pipeline with DataOps and MLOps integrated with AI?
- How Azure Databricks can be integrated with Azure DevOps and write data to Databricks MLFlow/features?
- Deploying Databricks Feature stores & Azure MLOps

WinWire Solution

WinWire recommended leveraging Azure DevOps, Azure Databricks, Azure ML for ML and data pipelines, Databricks feature factory store as architecture components for CI/CD. Standard methods couldn't achieve the desired end-state, so WinWire's AI team extended the functionality of open-source tooling to overcome the technical issues.

WinWire's AI team helped the business gain a seamless transition and enabled software delivery acceleration with CI/CD principles and best practices. Azure DataOps and MLOps, an end-to-end life cycle management of an ML and Data pipeline, addressed the challenges with:

- Code management, data management, model building, model management
- Model profiling, governance, model deployment, data capture, drift monitor

WinWire AI Team conducted **Azure DataOps, MLOps and ML sessions** for development teams on Advanced topics for development to production, highlighting the entire ML model lifecycle.

Business Value

- Optimized Architecture for AI/ML Deployments keeping AI principles & best practices and reduced TCO for the data sciences team
- Increased operational efficiency & improved productivity in AI/ML modeling and deployment
- Improved data scientist's productivity with Databricks on Azure & facilitated competitive differentiation and customer satisfaction