

# Scaling Healthcare Analytics on Azure for Faster Decisions



## The Customer

A Fortune 500 healthcare organization on the US West Coast with petabytes of data on Azure needing to process complex datasets (e.g., drug and appointment adherence) and provide advanced analytics to business units.

## The Challenge

- Big-data analytics/pipelines are complex; heavy coding and configurations
- Business units need out-of-the-box capabilities delivered seamlessly
- Domain/organization-specific algorithms must be made available securely and at scale

## The Solution

Operationalize a collaborative, Azure-native analytics environment with self-service:

- Connect platform to HDInsight, ADLS, Kafka, Ranger, Hive for governed big-data processing
- Provide business units AD-based access to apply NLP on very large datasets
- Build ML models for use cases like appointment/drug adherence and diabetes prediction

## The Results

- Scalable, governed analytics on Azure for petabyte data
- Business-unit self-service with secure access
- Reduced external integration reliance
- Faster adoption of advanced analytics

## Impact Delivered

- 70% Increase in customer acceptance
- 68% Improvement in advanced-analytics performance
- 45% Reduction in external integration effort
- 60% Faster solution delivery

## Solution Components

- HDInsight
- ADLS
- Kafka
- Ranger
- Hive
- Azure AD