

# AI & Machine Learning in 45 Days (IQi45)

## Problem

- A medical device company has multiple data science teams, each with varying data perspectives and responsibilities for predicting outcomes. Use cases such as battery life expiration or healthcare claims analysis included IoT and 3rd party datasets such as IQVIA and Definitive Healthcare. Each team's development workflow was similar with common challenges for data science teams, including the inability to scale beyond the performance of their machines, limited space for data capacity and lack of modern tools. Additionally, operationalization of predictive models was almost non-existent and cumbersome making the value these teams provided below par at best.

## Solution

- We worked with this client to establish an internal data consortium leveraging Azure Data Share, Synapse Analytics and Azure Machine Learning. This allowed the core IT Data Engineers to source and distribute larger domain focused data sets efficiently and securely to each data science team. We leveraged our IQi30 days offering to execute on a secure Azure ML deployment and provided education to jump start the data science teams value using Azure ML.

## Benefits

- The data science teams then had the ability to leverage new capabilities and compute scale within Azure ML that was not previously possible
- Data could be shared securely, efficiently and without additional ELT or ETL development from the data distribution hub to the data scientist's environment
- Data scientists were enabled to own their own data domain products to operationalize models easily and without assistance

