Case Study: Client Data Platform

- **Problem**
  - The client had two classic issues that we assisted them in solving. First, they had numerous, disparate systems each with slices of the organizations data. Data like medical device management, customer complaints/issues, sales and prescriber information They could not easily get a global view of their data ecosphere. Secondly, they contracted with a third-party provider of large sets of historical medical claims data for analytical purposes. The problem is that they did not have an environment that had the proper scale to allow their Data Science teams to work with the data. The Data Science team also required this data to be blended with corporate data.
- **Solution**
  - Spyglass MTG implemented a large scale data ingestion factory utilizing Fabric to acquire and process the federated data into a central data lake via numerous data pipelines and Notebooks. Spyglass MTG then created a serverless data layer to allow easy and quick access to all the data in a centralized spot. This reflects a modern data lakehouse approach.
  - Spyglass MTG used the same approach to acquire and process the large third-party files into the lakehouse. The scalability of Fabric allowed the Data Science teams to create advanced analytics and machine learning algorithms in order to start seeing patterns in the data and begin to implement predictive analytics for their products and patients.
- **Benefits**
  - With the data pipelines running on a timely basis (some of them run every 15 minutes), the client is able, in almost real time, view all their data in centralized area which allows them to join the disparate data sources in order to see the whole picture of their operations. Also, by providing the client with the scalability of Fabric, they can properly process historical data for analytics. The bottom line is now they can make more informed decision based on data driven strategies with appropriately governed data.