

# Research and Analytics Platform

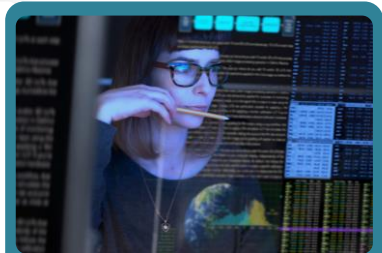
## Leading Biotechnology Organization

### Business Problems

- Need for an **integrated platform** to support **research and analytics** for data-driven insights across the value chain
- Build a unified environment within the platform for **data storage and aggregation**
- Enable secure access across multiple stakeholders to **advance analytics and visualizations**

### Solution(s) and Value Delivered

- ▶ Built an **Observational Medical Outcomes Partnership (OMOP)** data adaptor to consume clinical and claims data into OMOP model
- ▶ Implemented **Perform+ Regulatory** for observational research use cases like cohort builder and cost comparison
- ▶ Enabled **Natural Language Processing (NLP)** on unstructured data for analytics using **descriptive statistics** like metadata analysis, treatment cost burden and stratification of patient cohorts
- ▶ Developed a **drug failure mechanism** using R programming
- ▶ Built a **Clinical Decision Support System (CDSS)** for personalized medicine



**OMOP**  
*model for  
clinical/  
claims data*

**Clinical  
Decision  
Support  
System**

**Prediction  
of drug  
failure**

**Secure  
access**  
*to interactive  
analytics report*