

Cloud-based Imaging Platform

Leading Global Medicines Company

Business Problems

- ▶ **Integrate** multimodal images from different clinical trials
- ▶ Leverage clinical images to **enhance organizational knowledge** of disease, treatments in the real world
- ▶ Develop a single go-to source for **primary and secondary use of images** across the company
- ▶ **Integrate different viewers** across use cases like ophthalmology and neurology

Solution(s) & Value Delivered

- ▶ Recommended the **strategy and implementation plan for imaging metadata classification** and cataloging
- ▶ Designed **end-to-end workflows** with image acquisition, processing, storage, curation and visualization for downstream analytical use cases
- ▶ Created a **metadata layer** with **de-identification, validation and standardization** of DICOM and Non-DICOM imaging modalities
- ▶ Enabled data lineage and use of ontologies to make **data accessible and interoperable**
- ▶ Developed a search & run algorithm for **ML and analytics**
- ▶ Enabled **democratization of curated image data** to generate deep insight



25+

DICOM parameters converted to rules

DICOM & Non-DICOM

FHIR data model created

100%

compliance to interoperability measures and standardization

5+

types of clinical trials imaging data supported on the platform