



# Development of IM Data Lake for a top American bank

## 2%

Increased performance of public fixed income group.

## 61%

Reduction in manual effort

## 4x

Faster decision making

## CLIENT

The client is an American multinational investment bank and financial services holding company.

## AT-A-GLANCE

### Challenges

- The objective of the firm is to improve the performance of their portfolio by making informed quick investment decisions
- Create an Investment Management Data Lake with historical and incremental financial, economic, and research data for all asset classes.

### Solution

- SquareShift designed and implemented a data lake on Azure cloud with databricks and centrally managed by data engineering team.

## PROJECT CONTEXT

The client wanted to design and develop Investment Management Data Lake for financial, economical and research data (historical and incremental) for all asset classes

## PROJECT OBJECTIVES

- The objective of the firm is to improve the performance of its portfolio by making informed quick investment decisions.
- Text summarisation and entity extraction to help analysts understand large contract and quick investment decisions.
- Real-time analytics of all reports using the same golden data

## SOLUTION DELIVERY

- Designed and implemented a data lake on Azure cloud with Databricks and H2O Driverless AI as development tools for data scientists.
- Ingested historical and daily incremental data from Bloomberg, Thomson Reuters, FactSet, S&P, Sustainalytics, World Banks etc
- The data were cleansed, transformed and integrated and prepared for analysis and the data lake was centrally managed by our data engineering team
- The data was ingested by data scientists and analysts from various business departments. Along with our data scientists, we assisted in the development of fresh use cases.

## TECHNOLOGY STACK

