

Client

The client is a global financial technology provider and exchange operator, based out of the U.S., enabling capital markets with advanced data, analytics, and trading solutions to drive innovation and efficiency.

Business Need

A leading North American stock exchange and global technology provider engaged Innominds to develop index automation programs for over 400 major indexes. The goal was to fully automate their monthly, quarterly, half-yearly, and yearly reconstitution and rebalancing processes. This initiative aimed to reduce their dependence on market index analysts and legacy Microsoft Excelbased models.

Innominds Case Study

Solution

- Developed a scalable and reusable development framework using common components.
- Implemented code standardization and documentation standards.
- Executed automation in multiple phases:
 - Phase 1: 50 index automations
 - Phase 2: 300 additional automations
 - Final phase covered the remaining indexes.
- Delivered over 430+ index automations for:
 - Evaluation: Adding and deleting securities from indexes
 - **Rebalancing**: Adjusting weightages and handling corporate actions
- Built a reusable function library on the Index Data
 Warehouse, significantly reducing development time.
- Utilized AWS Cloud Infrastructure and Databricks for storage and processing.
- Migrating to the updated FactSet platform, as nearly 90 indices depend on FactSet data, and the response attributes were recently changed.

Value Delivered

- Scalability: Enhanced capacity to automate hundreds of indexes.
- Reusability: Components and libraries reduced future development efforts.
- Efficiency: Minimized reliance on market analysts and outdated Excel/Access models.

Tools & Technologies Used

AWS | Databricks | SQL | SAS | Programming | R language



Transform operations with scalable automation

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