

# AUTOMATING DATA MODELLING WITH DATAOPS AND CI/CD FOR UK RETAIL COMPANY

## INTRODUCTION:

Engaging Data partnered with the client to enhance their data modelling and deployment processes by implementing a DataOps solution with CI/CD.

The goal was to enable rapid scalability of their data team, improve efficiency, and streamline code deployment.

## CLIENT BACKGROUND:

- Retail
- United Kingdom
- Snowflake, DataOps, Data Engineering, Data Modelling

The client had mobilised their existing data modelling tool, WhereScape 3D, across their data team to build a Data Vault model for their Snowflake platform.

However, a new requirement emerged to automate code deployment using GIT and CI/CD, facilitating team growth and backlog reduction.

## CHALLENGES:

The client faced several challenges:

- Manual deployment processes slowed down development cycles.
- The need to scale the data team from 3 to 11 squads without increasing inefficiencies.
- A growing backlog of requests due to limited automation and process consistency.
- The necessity to standardise and document data models, mappings, and lineage.

## ENGAGEMENT:

Engaging Data leveraged its expertise in WhereScape and CI/CD to deliver a tailored DataOps solution:

- Implemented DataOps for Snowflake using GitHub and AWS virtual machines.
- Automated code deployment, integrating GIT for audibility, approval processes, and efficient version control.
- Provided comprehensive training to client team members to manage and maintain the solution post-go-live.
- Established consistent data modelling standards across all squads.

## CONCLUSION:

By implementing a DataOps solution with CI/CD, Engaging Data enabled the client to automate, standardise, and scale their data modelling processes.

This transformation reduced turnaround times, streamlined operations, and provided a scalable framework for future growth based on business demand.

## RESULTS:

The solution delivered significant business benefits:

- **SCALABILITY:** The client expanded from 3 to 8 squads within 4 weeks and to 11 squads within 6 weeks.
- **EFFICIENCY GAINS:** The backlog was reduced within 8 weeks of go-live.
- **PROCESS STANDARDISATION:** All squads now follow a consistent approach with common standards for data models.
- **IMPROVED TRANSPARENCY:** The GIT repository provides clear documentation, including metadata-based models, mappings, lineage, Snowflake code, and data dictionaries.

**LET'S MAKE YOUR ORGANISATION A SUCCESS STORY!**

**GET IN TOUCH NOW:**

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