

PIPELINE OBSERVABILITY IT AUTOMATION



BACKGROUND

This multi-national business services company focuses on assisting start-ups with core business functions such as HR, Legal, Payroll and Technology.

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Migrating from a legacy to a modern cloud data architecture for enterprise data and analytics posed reliability challenges.

PAIN / IMPACT

Following their major data transformation, the company required full observability for data in motion (Airflow) and at rest (Snowflake and dbt). They needed to progress from manual checks to proactive alerting on anomalies and delays that threatened core business processes.

- Legacy tools were unable to meet the challenge of observing Airflow, dbt or Snowflake and lacked impact analysis capabilities
- The staff could not identify common and anomalous behavior of pipelines

SOLUTION

LRS deployed a SaaS data observability platform to provide full stack visibility into every data pipeline. The proactive solution ensures the performance, uptime and accuracy of the data delivered to mission-critical operations.

- The LRS solution provided a comprehensive data observability and monitoring platform designed to detect, troubleshoot and resolve data quality issues, pipeline failures and performance bottlenecks across the entire data lifecycle
- The LRS observability solution tracks the flow of data from source to destination and illustrates the upstream and downstream impact of data incidents
- Our solution provides incident management, allowing teams to manage, triage, and resolve data quality incidents within the platform

OUTCOME

- Enhanced DataOps maturity with instant alerting on data pipeline delays and issues
- Improved MTTD and MTTR by finding data issues in real-time, as early as ingestion
- Replaced Datafold as observability solution, allowing them to focus on pipeline performance and monitoring
- Ensure data quality and data SLAs for Apache Airflow pipelines, dbt jobs executing on Snowflake