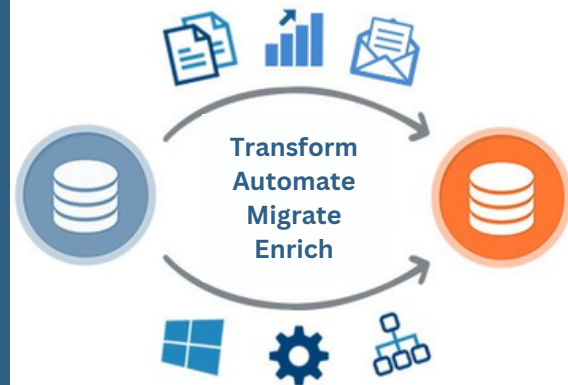# Data Migration Assistant

Improve and evolve your data engineering capabilities.

Upgrade your data assets by transforming or migrating various elements such as ETL jobs, BI reports, Streaming Pipelines, Schemas, Models, Event and API Definitions, and Metadata tags.

Swiftly transfer data and metadata between systems to enhance the strength and speed of data streams.

Organise and modify datasets for AI/ML scenarios. Create synthetic data or anonymise real data. Enrich catalogues and exploration tools with additional valuable metadata.

Transform Automate Migrate Enrich

Use Cases:

Migrate Jobs & Reports: Automated movement of data pipelines and reports between technology platforms, ensuring rapid change with minimal disruption.

Evolving Schemas & Definitions: Provide a framework for managing changes to data structure, including version control, unit testing, and data profiling updates.

AI/ML Dataset Preparation: Simplify the key criteria for preparing data for AI/ML models, including data selection, cleansing, splitting, lineage tracking, and security/privacy.

Secure Test Data Management: Define best practices for provisioning secure test environments with orchestrated data creation, enrichment or migration, masked/anonymised data, access controls, and disposal procedures.

Contact us today to learn how our platform can unlock the hidden potential in your data and propel your bank to the forefront of data-driven success.

IQaaS

unlock hidden insights

Platform Features

Automated Movements and Migrations:
- **Platform Connectors:** Built-in connectors to various data platforms (source and target) for seamless data extraction and loading.
- **Job Mapping & Transformation:** Visual interface to define data transformations (e.g., filtering, aggregation) during migration, ensuring data consistency across platforms.
- **Impact Analysis:** Analyse potential downstream impacts of migration on reports and dashboards, minimising disruption.
- **Automated Testing:** Integrate automated testing frameworks to validate migrated reports and data pipelines before deployment.
- **Version Control & Rollback:** Track changes to jobs and reports, allowing rollbacks to previous versions if necessary.

Evolving Schema & Definitions Management:
- **Version Control System:** Centralised repository for tracking changes to data schema definitions, including versioning and rollback capabilities.
- **Impact Assessment:** Analyse the impact of schema changes on existing data pipelines and reports, identifying potential issues.
- **Unit Testing Framework:** Integrate unit testing capabilities for data transformations to ensure data integrity after schema changes.
- **Data Profiling:** Generate automated data profiles to track changes in data quality metrics (e.g., completeness, accuracy) after schema updates.
- **Change Notification & Approval Workflows:** Automate notifications and approvals for schema change requests, ensuring adherence to data governance policies.

Dataset Preparation:
- **Data Discovery & Selection:** Tools to discover and select relevant datasets for AI/ML models based on specific criteria (e.g., data type, timeliness).
- **Data Cleansing & Transformation:** Provide advanced data cleansing capabilities like handling missing values, outliers, and normalisation to improve data quality for model training.
- **Data Splitting & Sampling:** Automate splitting datasets into training, validation, and testing sets based on best practices for machine learning.
- **Lineage Tracking:** Track the origin and transformation history of data throughout the preparation process to ensure data provenance and auditability.
- **Data Anonymisation & Security:** Integrate anonymisation techniques (e.g., tokenisation, differential privacy) to protect sensitive information while enabling model development.

Secure Test Data Management:
- **Data Orchestration:** Automate data creation, enrichment, or migration processes to efficiently provision test environments.
- **Data Masking & Anonymisation:** Integrate advanced data masking techniques to ensure realistic test data while protecting sensitive customer information.
- **Dynamic Access Control:** Define granular access controls for test environments, limiting access based on user roles and permissions.
- **Data Sandboxing:** Create isolated test environments with self-service provisioning and automated data disposal procedures to ensure data security.
- **Test Data Audit Logging:** Track user activity and data access within test environments for compliance and security purposes.

These features empower data teams to manage various data handling scenarios, enabling efficient data migration, robust schema management, streamlined AI/ML data preparation, and secure test data environments.

Benefits and Advantages

Unleash the Power of Your Data: Streamline Repetitive Tasks and Boost Engineer and Analyst Productivity

Inhabit a world where data migrations happen seamlessly, schema changes are a breeze, and AI/ML projects get the clean data they crave – all while maintaining robust security. This isn't a dream; it's the reality with our powerful suite of data management features.

Effortless Platform Migrations: Say goodbye to tedious data transfers and disruptions. Built-in connectors simplify movement between platforms, while visual transformation tools ensure consistent data and minimal impact on reports and dashboards. Automated testing provides peace of mind before deployment, and version control offers a safety net for future adjustments.

Evolving Schemas Made Easy: Don't let schema changes become a headache. Our centralised repository keeps track of everything, and impact analysis helps you anticipate and address potential issues before they arise. Unit testing guarantees data integrity after updates, and automated profiling monitors quality metrics. Streamlined governance workflows ensure all changes follow best practices.

AI/ML Data Wrangling Simplified: Stop wasting time searching for the right data. Our tools help you discover relevant datasets quickly, while advanced cleansing capabilities ensure the quality your models need for top performance. Automated splitting optimises training and testing, and lineage tracking provides transparency throughout the process. Plus, data anonymisation techniques protect sensitive information, enabling secure and compliant development.

Test Environments on Demand: Provisioning secure test environments just got easier. Automated processes handle data creation, enrichment, or migration, saving you valuable time. Advanced masking techniques create realistic yet secure data, while granular access control ensures only authorised personnel have access. Self-service sandboxes with automated data disposal promote security and minimise risk. Comprehensive audit logs track user activity for enhanced accountability.

Unlock the Full Potential of Your Data: This durable set of features empowers your data team to streamline tasks, minimise disruptions, and confidently perform data management. It's time to permit your data to drive business results with confidence.

Comission Rapid Updates with a Structured AI-Powered Migration and Change Tool

__Harness the Power of Data-Driven Banking:__ Schedule a demo today to discover how our platform can unlock the hidden potential within your data and empower your bank to achieve data-driven success.

Our platform offers banks a comprehensive range of tools to upgrade their legacy platforms and streamline information and content updates.

Utilise our assistant tools and technology suite, seamlessly integrating with your existing systems and procedures, to facilitate the migration and introduction of new data-centric products and features.

Stay competitive by achieving rapid scalability to lead change and foster ongoing enhancement and innovation.

IQaaS
unlock hidden insights

Use Cases

| Schema Changes | API Changes | Report Changes | Metadata Enrichment | Data Privacy | Test Data Automation |

Product Features

| Metadata | Data Sources | Data Transport | Data Process | Data Sinks |

ELT - Streams - CDC

Metadata Catalogue · Feature Store

Master Data Management · Reference Data Management

Repository · Folder

Database · Library

Events · Rest API · JDBC

Enrich · Filter

Mapping · Cleanse

Label · Anonymise

Repository · Folder

Database · Library

Blueprints and Standards