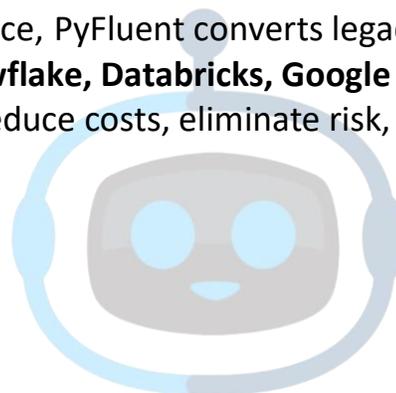




## PyFluent Platform Overview

**Pyfluent** is the industry's first fully on-premise, parser-driven legacy code migration and transformation platform. Originally designed for SAS modernization, PyFluent has evolved into a comprehensive enterprise solution supporting large-scale code and ETL migrations across **SAS, IBM DataStage, Teradata BTEQ, Alteryx, Informatica, Qlik/Talend**, and more.

With unmatched automation, security, and performance, PyFluent converts legacy code into scalable, cloud-native formats optimized for **Snowflake, Databricks, Google BigQuery, Azure Fabric, Redshift, and DBT** helping enterprises reduce costs, eliminate risk, and accelerate time-to-cloud.



## What Makes PyFluent Different

**End-to-End AI** Harness state-of-the-art generative AI to power your entire migration lifecycle. From intelligent analysis through adaptive conversion, automated validation, and end-to-end optimization, every step is seamless, self-learning, and fully auditable.

**Secure On-Premise Deployment** Fully containerized; deploy in your VPC, data center, or behind your firewall. Nothing leaves your environment.

**Multi-Platform Support** Migrate from **SAS, DataStage, BTEQ, Alteryx, Informatica, Oracle ODI**, and more.

**Built-In Execution Layer** Visually execute converted code in **Snowflake, Databricks** clusters as well and many others.

**AI Developer Assistant-Merlin AI** offers real-time guidance, debugging, and optimization during and post-migration.

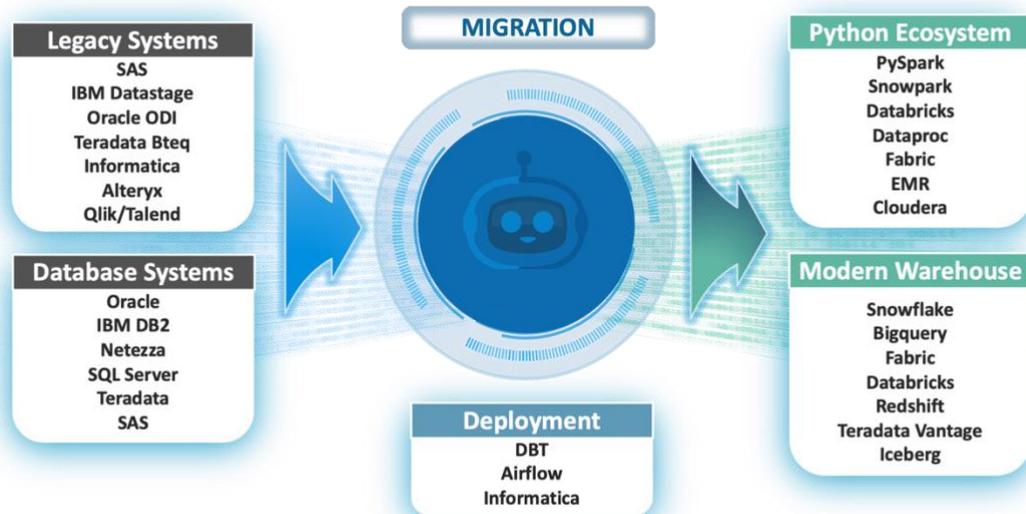
**Full Validation and Data Matching** Guarantee consistency of logic and data before, during, and after migration.



**Migrate Smarter. Analyze Faster. Transform with PyFluent.**

[www.pyfluent.ai](http://www.pyfluent.ai)

## Legacy Systems/Database Systems/Python Ecosystem/Modern Warehouse/Deployment



### Simply upload or connect to file folders

#### 1. Analyze **Out-of-the-box**

- Inventories legacy systems, ETL workflows, and codebases
- Automatically maps dependencies across SAS, DataStage, Alteryx, etc.
- Prioritizes migration sequences and creates resource timelines

#### 2. Convert **Out-of-the-box**

- High-speed, parser-based translation of SAS, BTEQ, Informatica, and more
- Converts code logic into modular, modern, PEP8-compliant formats
- Preserves macros, metadata, and ETL logic with minimal refactoring

#### 3. Validate

- Tests logical equivalence across platforms
- Validates schema, data types, structure, and results
- Supports row-level and aggregate comparison

#### 4. Execute

- Execute transformed pipelines directly in Snowflake, Databricks & more
- Visual workflow control for job packaging, scheduling, and debugging
- DAG interface and versioning support included

## 5. Data Matching

- Compare source and target data for metric and structure alignment
- Partition-based validation (e.g., by date, region, customer)
- Automated reconciliation of schema and formats

### Automated Schema Mapping

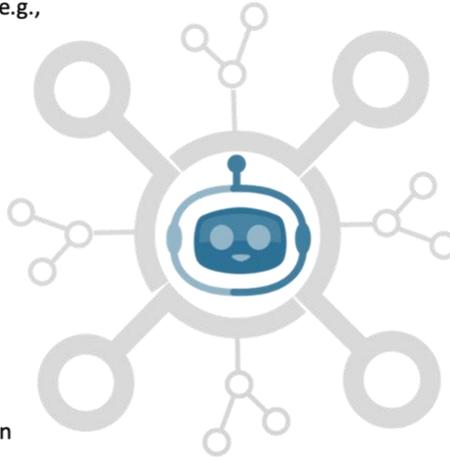
Automatically maps source schemas (e.g., **SAS, Oracle, Teradata**) to the target system for fast and efficient setup.

### Metadata Comparison

Compares metadata (e.g., **table structures, indexes**) between the source and target systems to ensure complete structural alignment.

### Data Type Validation

Ensures accurate translation of column types (e.g., numeric, string, date) into formats compatible with the target system, eliminating type mismatches.



### Metrics Comparison

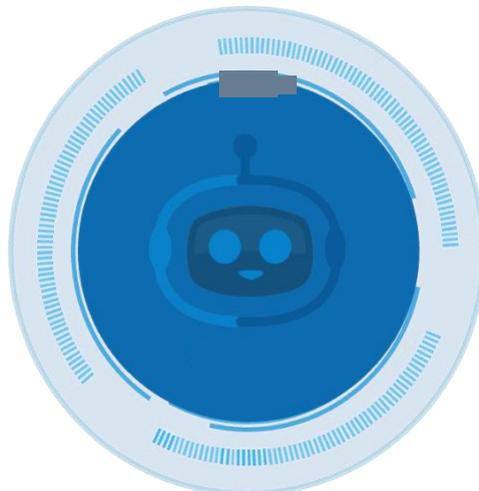
Validates key metrics (**counts, sums, averages, etc.**) between source and target systems to confirm data accuracy.

### Partitioned Validation

Performs aggregate checks by **partitions** (e.g., **date, region**) to ensure data consistency within subsets.

## 6. Document

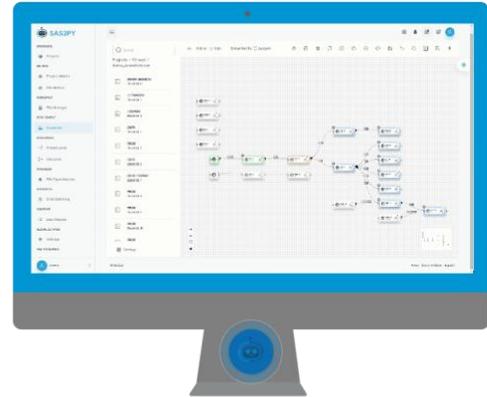
- Auto-generates migration reports, inline code comments, and lineage maps
- Preserves legacy code view for audits and rollback



## 7. Code/Data Lineage

**End-to-End Code Lineage:** SAS2PY automatically maps dependencies across all workflows, ensuring **100% traceability** before, during, and after migration.

**Clickable Lineage Exploration:** Users can **click on any dataset, transformation, or script** to immediately view the original code alongside its migrated equivalent.



**Legacy Code Preservation & Full Auditability:** Every **original script** remains **fully viewable, traceable, and auditable**, ensuring **long-term historical reference and compliance validation**.

## Merlin AI – The Developer Assistant

**Merlin AI** is a GenAI developer assistant for developers and data engineers working with migrated code. Built directly into the PyFluent platform, Merlin supports:

- Real-time debugging and transformation assistance
- Auto-rewrite of SQL and Python blocks for optimization
- Error tracebacks, logic flow explanations, and quick fixes
- GenAI-enabled context-aware chat for specific code inquiries
- On-premise optional for security-sensitive environments

## Enterprise-Grade Data Matching & Validation

PYFLUENT includes a powerful data validation engine to ensure consistency and trust throughout your migration:

- **Automated Schema Mapping:** Aligns source and target columns and formats
- **Data Type Normalization:** Ensures compatibility across platforms
- **Metadata Comparison:** Verifies structures, indexes, and dependencies
- **Metric Validation:** Confirms row counts, aggregates, and KPI accuracy
- **Partition-Level Checks:** Detects mismatches by date, region, or business slice



## Deployment Options & Infrastructure

- Deploy within your infrastructure or in the cloud – you decide
- Docker-based delivery; compatible with AWS, Azure, GCP, on-prem VMs
- Standard Instances: AWS m5.2xlarge, Azure D8s v3, GCP n2-standard-8
- No data or logic ever leaves your environment

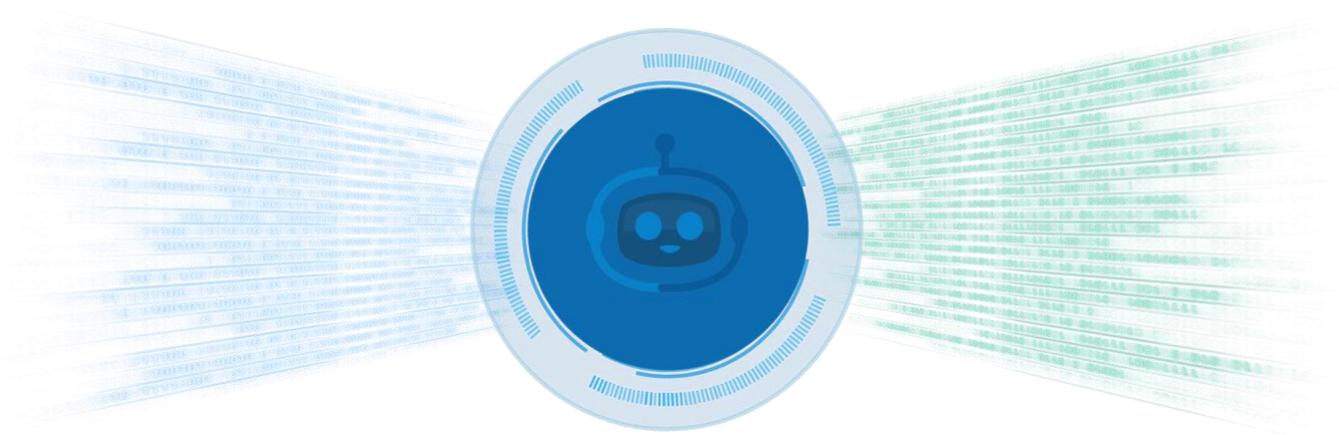
## Licensing & Engagement Options

- **Volume Pricing** Tiered by LoC (lines of code) and platforms migrated
- **Proof of Concept (PoC)** 4-week paid PoC
- **Partner-Friendly** We work with many SI's, technology partners and cloud migration partners

## Take the Next Step in Digital Transformation

**PyFluent** is the world's most secure, flexible, and automated legacy modernization platform built to meet the needs of large enterprises across regulated, data-intensive industries. Whether modernizing legacy code, rebuilding ETL pipelines, or migrating entire platforms to the cloud, PyFluent accelerates your path forward while reducing risk and cost.

Schedule a Demo: [www.pyfluent.ai](http://www.pyfluent.ai)



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