



SAS2PY: The ONLY Solution for SAS Code Migration

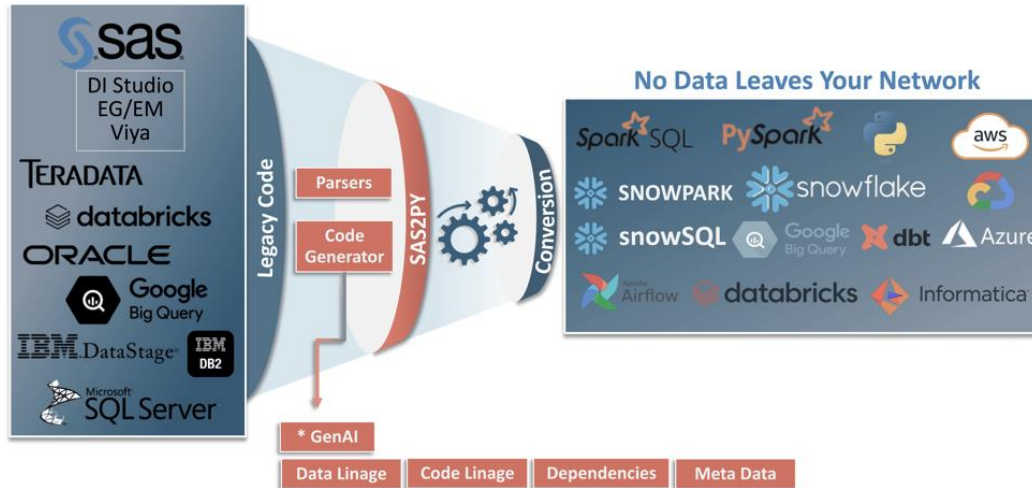
SAS2PY is a powerful, automated platform to migrate legacy SAS code to modern environments like Python, Snowflake, Databricks, and other cloud-based platforms. It helps businesses eliminate the high costs and risks of outdated SAS infrastructure while modernizing their data analytics and processing capabilities.



How SAS2PY Helps Companies

- **Automates Code Conversion:** Converts entire SAS codebases, including macros, data steps, and SQL queries, to Python and other target environments without manual rewriting.
- **Reduces Migration Time:** Converts 100,000 lines of SAS code in 10 minutes, drastically shortening migration projects from months to weeks.
- **Cuts Costs:** Eliminates expensive SAS licensing fees and reduces manual developer work.
- **Improves Performance:** Translates inefficient SAS scripts into optimized Python or Snowflake code that runs faster and scales better.
- **Ensures Accuracy:** The automated conversion maintains the integrity of business logic, ensuring that results remain consistent across platforms.
- **Simplifies Maintenance:** Generates clean, well-structured code that is easy for
- **Enhances Security & Compliance:** Supports on-premise deployment, keeping sensitive data secure while ensuring compliance with industry regulations.
- **Integrates with AI & Machine Learning:** Enables advanced data analytics and AI-driven insights by migrating data to platforms optimized for modern data science workflows.





Supported Inputs

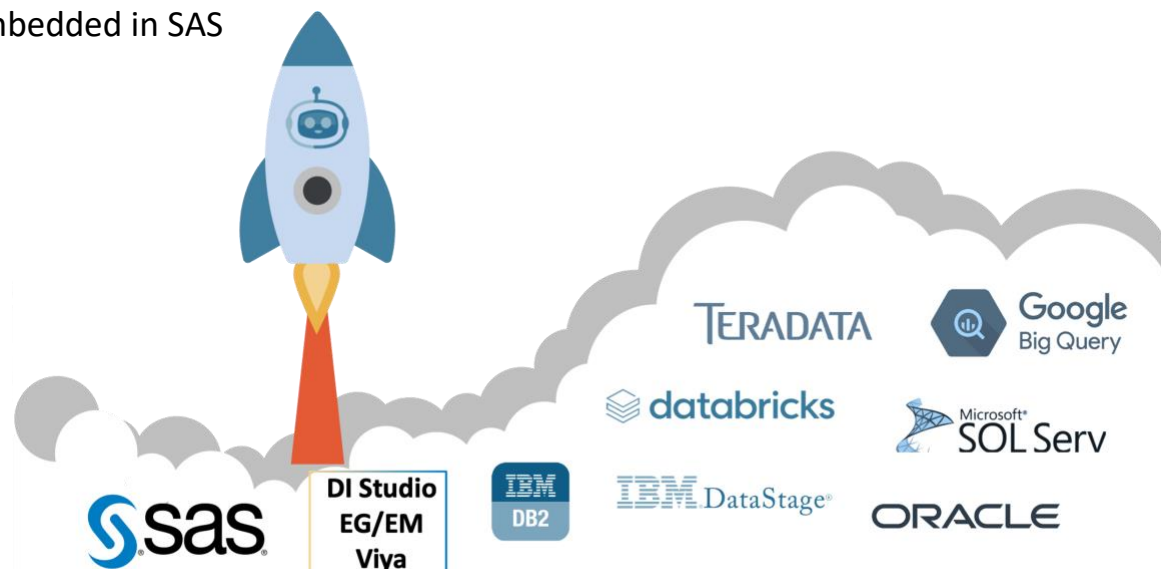
SAS2PY supports a wide range of SAS code and related tools, including:

SAS Environments & Components:

- Base SAS
- SAS Macros
- SAS Enterprise Guide (EG)
- SAS Data Integration Studio (DI Studio)
- SAS Enterprise Miner (EM)
- SAS Viya
- Stored Procedures
- Custom SAS Scripts

SQL-Based Inputs:

- SQL queries embedded in SAS
- Oracle SQL
- Teradata SQL
- IBM DB2 SQL
- Netezza SQL
- Snowflake SQL
- SQL Server



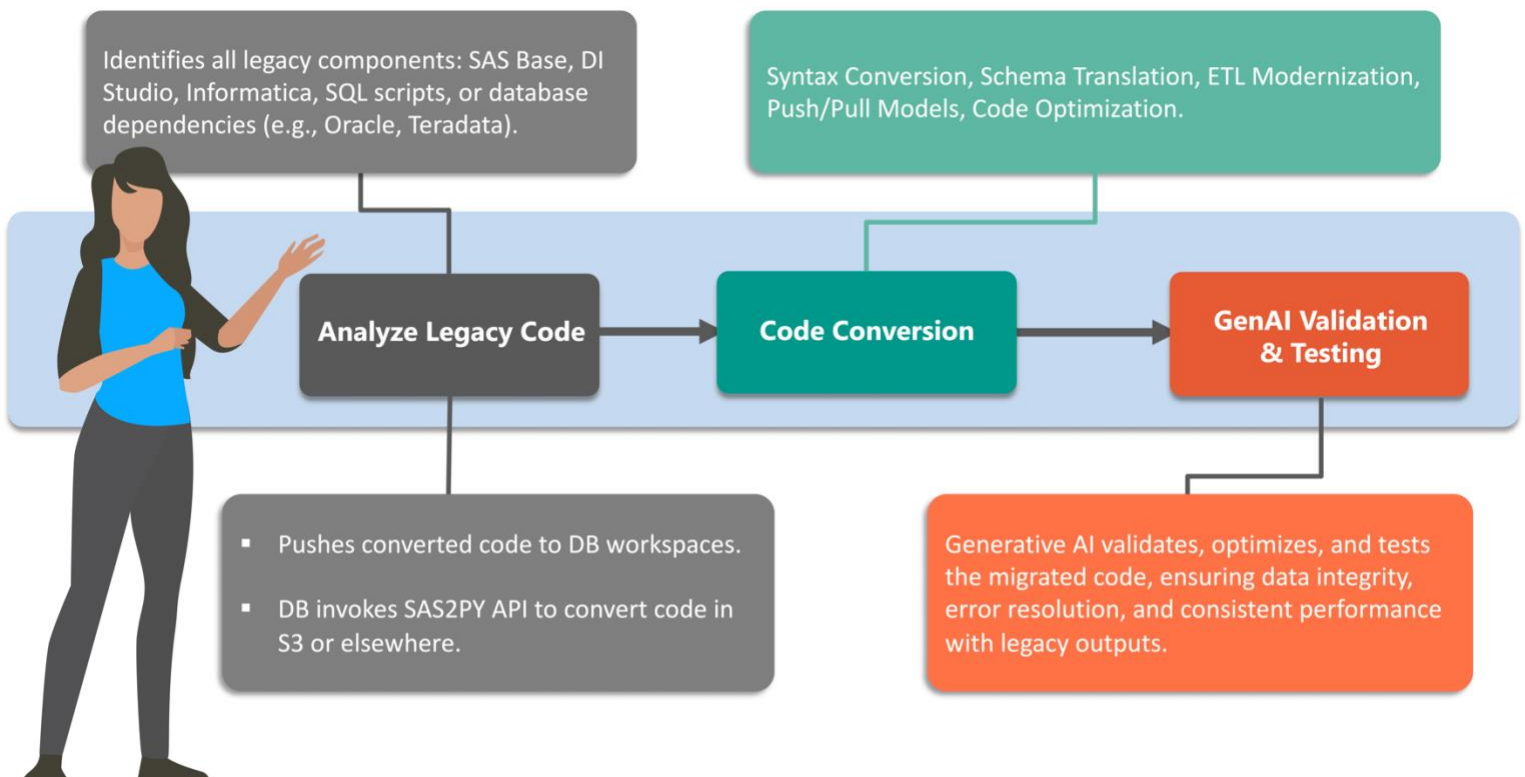


ETL Tools & Data Pipelines:

- Informatica PowerCenter
- IBM DataStage
- Talend
- Alteryx

Data Sources & Formats:

- CSV
- Excel
- SAS Datasets
- Parquet
- Avro
- JSON
- XML





Outputs & Target Environments

Once converted, the SAS code is optimized for modern environments, allowing businesses to migrate their analytics workloads to:

Programming Languages:

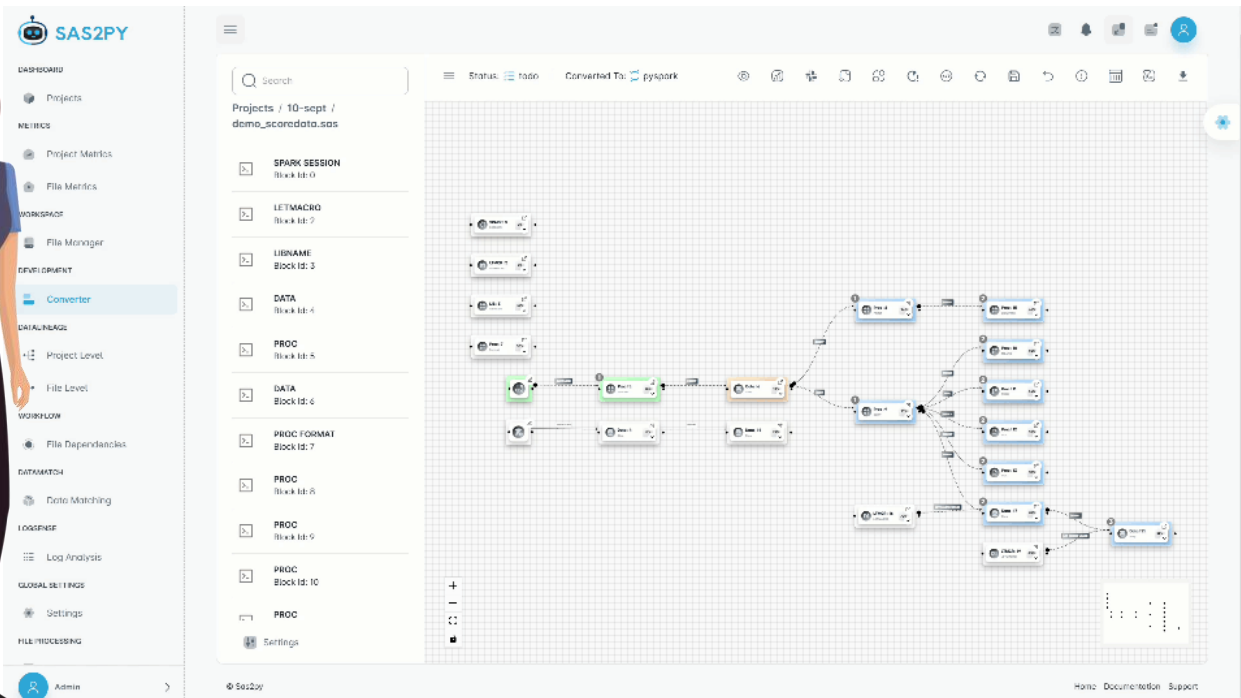
- Python (fully optimized, PEP8-compliant code)
- PySpark
- SQL (for direct Snowflake, Databricks, or Redshift execution)

Cloud Data Warehouses & Processing Platforms:

- Snowflake
- Databricks
- AWS Redshift
- Google BigQuery
- Azure Synapse

Workflow & Orchestration Tools:

- Apache Airflow
- Prefect
- Dagster
- AWS Step Functions



The screenshot displays the SAS2PY web application interface. On the left, a sidebar menu lists various features: DASHBOARD (Projects, Metrics, Project Metrics, File Metrics), WORKSPACE (File Manager), ENVIRONMENT (Converter), DATA INGEST (Project Level, File Level), WORKFLOW (File Dependencies), DATA MATCH (Date Matching), LOGGING (Log Analysis), GLOBAL SETTINGS (Settings), and FILE PROCESSING (Admin). The main area shows a project titled '10-sept / demo_scoredata.sas' with a list of blocks: SPARK SESSION, LETMACRO, LIBNAME, DATA, PROC, DATA, PROC FORMAT, PROC, PROC, PROC, PROC, and PROC. A workflow diagram is visible on the right, showing a sequence of tasks connected by arrows, including 'SPARK SESSION', 'LETMACRO', 'LIBNAME', 'DATA', 'PROC', 'DATA', 'PROC FORMAT', 'PROC', 'PROC', 'PROC', 'PROC', and 'PROC'. The interface also includes a search bar, a status bar, and a user profile icon.





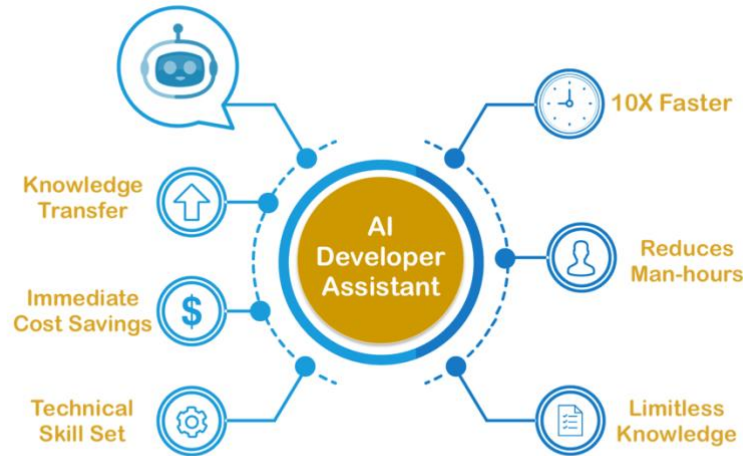
Data Matching

- **Automated Schema Mapping:** Automatically maps source schemas (e.g., SAS, Oracle, Teradata) to converted code.
- **Data Type Validation:** Ensures that column types (e.g., numeric, string, date) in the legacy system are correctly translated into native converted code formats.
- **Metadata Comparison:** Compares metadata (e.g., table structures, indexes) between legacy and converted systems to guarantee structural alignment.
- **Metrics Comparison:** Validates key metrics such as counts, sums, averages, and other aggregates between source and target systems.
- **Partitioned Validation:** Supports aggregate checks at the partition level (e.g., by date or region) to ensure consistency across subsets of data.

Key Features of SAS2PY

- **Automated Code Parsing & Translation:** Converts complex SAS programs, ensuring logical consistency across environments.
- **Data Lineage & Impact Analysis:** Provides a clear view of how data moves and transforms during execution.
- **AI-Powered Code Optimization:** Refines converted code to improve performance and maintainability.
- **Syntax & Performance Validation:** Tests output code to ensure it runs as expected.
- **Documentation Generation:** Creates detailed migration reports and in-code comments to aid developers.
- **Jupyter Notebook Integration:** Facilitates interactive data exploration and debugging.





Merlin AI: The Developer Assistant

Merlin AI simplifies legacy code migration by assisting developers with debugging, refining, and validating converted code. After code conversion, it functions as a versatile assistant for analytics and development tasks.

With on-premise and GenAI integrations, it provides a secure, scalable, and customizable solution. Developers can use Merlin AI to test, troubleshoot, and optimize code, ensuring accuracy before deployment, all within a single interface and platform.

- **Automated Debugging:** Identifies and fixes common conversion issues.
- **Real-Time Guidance:** Offers insights on best practices for code modernization.
- **Contextual Support:** Answers technical questions about migrated code.

Why Businesses Choose SAS2PY

- **Fastest SAS Migration Available:** Completes projects up to 10x faster than manual efforts.
- **Significant Cost Savings:** Reduces licensing costs and developer workload.
- **Zero-Code Modifications Required:** Ensures a smooth transition with minimal business disruption.
- **Supports Large Enterprises & Complex Workloads:** It can handle millions of lines of SAS code.
- **Future-Proof Data Strategy:** Moves analytics from legacy systems to scalable, cloud-based platforms.