



Henri Sandifer

Data Engineer

Portfolio



<https://bit.ly/4oxfH16>

Problem-solving, multilingual and detail-oriented data engineer with a background in agricultural engineering, specialized in soil microbiology, and experience building end-to-end data projects. I'm passionate about designing and deploying scalable data pipelines and turning complex datasets into actionable resources. I have international experience and am eager to contribute technical skills and a strong work ethic to my team.

Contact

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Lyon, France

Education

2025

Data Scientist - RNCP6 – Concepteur Développeur d'Applications
DATAROCKSTARS - intensive 400h Bootcamp

2022

Masters of Science in Sustainable Agriculture (110 e Lode)
Università degli Studi di Padova, Italie

2015

Bachelors of Arts in Biology
Carleton College, USA

2011

French Baccalaureate - Economics & Sociology (International Option)
EABJM, Paris

Tech stack

Languages & Libraries : Python, SQL, Bash
Pandas, NumPy, Scikit-learn

Cloud & DevOps : AWS (S3, ECS, ECR, EventBridge), Docker, Git, GitLab

Visualization & BI : Power BI, Streamlit

In progress : Kafka, Airflow, Snowflake, Spark, dbt

Methodologies

ETL/ELT, Data Quality, Data Modelling, Testing, Error Logging, Agile

Languages

English/French (native and bilingual)
Italian (fluent ~ C1)
Spanish (B1)
German (A2)
Japanese (A2)
Arabic (A2)

Technical Projects

Regional Electricity Consumption Prediction | 2025

Streamlit app : <https://bit.ly/4ltmVR8>

- Engineered an end-to-end automated data pipeline on AWS (S3, ECS, EventBridge) using Docker.
- Collected and prepared data from multiple sources (APIs, static files), performing extensive cleaning and structuring.
- Built and versioned 55 predictive XGBoost models with MLflow for continuous performance monitoring.
- Developed an interactive Streamlit dashboard for stakeholder visualization and analysis.

Industrial Energy Consumption Analysis | 2025

Power BI Dashboard : <http://bit.ly/4oLEmPF>

- Designed and implemented an ETL pipeline to process and structure 168 heterogeneous files from INSEE (French National Institute of Statistics).
- Constructed a relational star schema database to support multi-dimensional analysis.
- Created an interactive Power BI dashboard for multi-scale analysis (by region, sector, company size).

Professional Experience

July 2024 - January 2025

SOLVEO Energies (*French renewable energy developer*) - Toulouse, France
Agronomist, Agrivoltaic Projects

- Served as the agronomic expert for field development teams, conducting farm diagnostics and preparing technical decision-making reports.
- Co-authored the functional specifications for the company's agrivoltaic control software.
- Created a reference database on the light requirements of 17 different crops, synthesizing over 70 scientific articles.

August 2023 - November 2023

MYCOPHYTO SAS (*"French Tech" startup*) - Grasse, France
Business Engineer

- Managed the full client relationship lifecycle, from prospecting to on-site deployment.
- Improved sales and reporting tools by redesigning a pricing tool with advanced Excel formulas and developing a QGIS-based mapping tool for client deliverables.

2017 - 2023

Domaine La Tourbeille // Taverne du Belvédère - near Bordeaux, France
Account Manager / Commercial

- B2B sales, budget management, and commercial strategy.
- Oversaw restaurant operations and implemented agroecological practices in the vineyard