



# Henri Sandifer

## Data Engineer



Portfolio  
Data  
Engineer  
Projects

<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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## 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