



# Mathis Derenne

Data Analytics, Engineering & Machine Learning

## CONTACT

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## SKILLS

### Programming Languages

Python, SQL, R, Go, DAX

### Data Engineering

- dbt, Dagster, dlt, SQLAlchemy
- Dimensional Modeling Principles

### BI & Data Apps

Power BI, Streamlit, Marimo, Altair

### Data Science & ML

Polars, Pandas, Scikit-Learn, PyTorch

### DevOps & Tooling

Git, CI/CD, Dev Containers, Linux

### Languages

French (Native)

English (Fluent)

German (Actively learning)

## PROJECTS

### Orca-demo — code

A data warehouse implementation featuring ingestion, transformation, orchestration and reporting.

### Orca — code

A template helping data team setup an agentic-ready data warehouse.

### Conformal Prediction — demo

Explores, implements, and benchmarks conformal prediction techniques applied to regression and classification tasks.

## SUMMARY

Experienced in building data products that support decision-making through scalable engineering, predictive modeling, and analytics.

Relocating to Berlin and available from late September 2026. I am seeking English-speaking roles in Data Analysis, Engineering, or Data Science.

## EXPERIENCE

### CoSpirit, Data Engineer & Scientist (Apprenticeship)

Sep 2024 – Present  
Lyon, France

#### Data Engineering, BI & Data Science

- > **Data Engineering:** Designed ELT pipelines and dimensional models to warehouse multi-channel marketing data; developed Power BI datasets to enable cross-media performance analysis. *Tools: Microsoft SSIS (ETL), SQL Server, Git*
- > **Business Intelligence:** Designed and deployed 20+ interactive Power BI dashboards enabling media experts to optimize ad spend and clients to track their ad campaigns. *Tools: PowerBI, DAX, PowerQuery*
- > **Machine Learning:** Built a spatial billboard rental pricing model combining conformalized quantile regression with spatial feature engineering (Gaussian kernels, KD-Trees), empowered sales teams with uncertainty-quantified predictions to optimize cost negotiations with media owners.

### CGI, Software Engineer (Internship)

Jun 2023 – Aug 2023  
Nantes, France

#### Open-Source Data Anonymization

- > Developed an open-source tool for data anonymization and GDPR compliance. *Tools: Python, Golang*

### Auto1, Business Analyst (Internship)

Jun 2022 – Jul 2022  
Berlin, Germany

#### Causal Inference & Automation

- > Designed a voucher distribution system for inactive customer reactivation.
- > Applied causal inference to estimate voucher impact on reactivation and predictive modeling to predict post-reactivation customer value.
- > Developed an interactive Streamlit dashboard.

## EDUCATION

### Master's Degree in MIASSH

Sep 2024 – Present  
Lyon, France

#### Université de Lyon

- > **Machine Learning & Statistics:** Supervised, Unsupervised, Deep Learning, Time Series, Survival Analysis, NLP, XAI, Signal Processing, Conformal Prediction, Bayesian Inference, Multi-Armed Bandit, Inverse Problems, Operational Research.
- > **Data Engineering:** SQL and Database Management, Google Cloud Platform, RAG.

### Bachelor's Degree in MIASSH

Sep 2021 – May 2024  
Rennes, France

#### Université de Rennes

- > Linear Models, Econometrics, Inferential Statistics, and Optimization

### International Exchange Year in India 🇮🇳

Aug 2018 – May 2019

- > 12th Grade student in Humanities section. Engaged in community volunteering.