

Adrien Morel | ML Engineer

Paris, France

☎ +33 (0)6 26 09 31 20 • ✉ adrien.morel@gmail.com • in adrien-morel • 🌐 Adrien-1997

Data Scientist building reliable ML systems, from data pipelines to evaluation, APIs, and monitoring

Technical Skills

Machine Learning & Data Science: scikit-learn, XGBoost, LightGBM, PyTorch, feature engineering, cross-validation strategies, hyperparameter tuning (Optuna), model evaluation and performance analysis

LLMs & Generative AI: Hugging Face Transformers, RAG pipelines, LangChain, prompt engineering, OpenAI / Anthropic APIs

MLOps & Production ML: End-to-end ML pipelines, experiment tracking (MLflow), model versioning and registry, batch inference and API serving (FastAPI), reproducible training workflows, model monitoring (Evidently)

Cloud & Infrastructure: GCP (Vertex AI, Cloud Run, BigQuery, Cloud Storage, Cloud Scheduler, Artifact Registry), Docker, CI/CD

Software Engineering: Python (advanced, typed codebases), FastAPI, Pydantic, REST APIs, Git

Data Engineering: SQL, PostgreSQL, Snowflake, ETL pipelines, object storage (S3-compatible)

Soft Skills: problem-solving, autonomous work and self-direction, cross-functional collaboration, clear technical communication, attention to detail, fast learner

Languages: French (native), English (fluent, TOEIC 950), Italian (conversational)

Professional Experience

Freelance

Paris, France

ML Engineer – Independent Projects

09/2024 – Present

- **Vélib' Forecast Paris:** Designed and deployed an end-to-end ML system to forecast bike availability across 1,500+ stations. Built reproducible pipelines (data ingestion, feature engineering, training, batch inference) with MLOps practices (MLflow, model versioning, automated retraining). Implemented monitoring for data quality, drift and performance. Deployed on GCP (Cloud Run, Cloud Storage, Scheduler) with FastAPI REST API. **Live:** www.velo-paris.fr
- **IT Consulting for SMEs:** Web infrastructure deployment, technical support and data structuring for small businesses
- **Tech:** Python, scikit-learn, FastAPI, MLflow, Docker, GCP, GitHub Actions

Career Transition Period

Paris, France

Professional Development & Military Reserve

09/2023 – 09/2024

- Completed advanced geopolitics training (iReMMO Institute) while serving as reserve officer in French Navy HQ
- Ranked 2nd out of 180 in competitive Navy staff training program (PMS)
- Deepened mathematical foundations (inferential statistics, measure theory) and active Kaggle contributor (Top 2% worldwide, 200+ upvotes)

Data Scientist – Railway Infrastructure

Saint-Denis, France

SNCF Réseau

10/2022 – 05/2023

- Automated detection of geometric anomalies across the French railway network using statistical methods and spectral analysis
- Designed interpretable indicators and visualization tools to support maintenance decision-making
- **Result:** Reduced manual analysis time by 50% for a team of 12 agents
- **Tech:** Python (Pandas, SciPy, scikit-learn, Matplotlib)

Data Scientist / Data Developer – Urban Mobility

Issy-les-Moulineaux, France

Transdev

06/2021 – 09/2022

- Built NLP pipeline for customer feedback analysis (Twitter scraping, sentiment classification with scikit-learn)
- Designed Power BI dashboards to monitor fuel efficiency and operational KPIs across business units
- Developed Excel/VBA benchmarking application for HR and financial indicators, deployed to 150+ users
- Migrated historical datasets to Snowflake and automated reporting workflows via SharePoint and Power Automate
- **Tech:** Python (scikit-learn, Pandas), Power BI, Excel/VBA, Snowflake, Talend

Education

CY Tech

Cergy, France

Engineering Degree in Applied Mathematics

09/2019 – 06/2022

Dual degree with the University of A Coruña (Spain) in High-Performance Computing

Certifications & Open Source

Google Cloud

Professional Machine Learning Engineer, Associate Cloud Engineer

02/2026

Probabl / Inria

Scikit-learn Associate Practitioner, Open Source contributor to the Scikit-learn ecosystem (Skore)

01/2026