



## Vincent Duchauffour

### Machine Learning Engineer

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## Profile

I work in data/AI field since 2019.

Over the years, I have specialized closely on software engineering aspects of machine learning projects. This includes maintaining and deploying ML application for production use, developing and monitoring ML pipelines, and building CI/CD pipelines.

I'm working on side-projects that involves high performance languages (C++).

## Skills

- Python, PyTorch
- Linux, Shell scripting
- Docker, K8S, GitHub Actions
- Git, AWS, MLFlow, Terraform

## Languages

- French (Native)
- English (Professional)
- German (Beginner)

## Experience

### Since Jan. 2024 MLOps Engineer - Stonal

- Work with a team of AI engineers to **develop and deploy ML applications in large-scale context** (AWS EKS/RabbitMQ/FastAPI)
- **Handle MLOps topics** like model versioning, reproducibility, provisioning (Terraform), CI/CD (make complete switch from Jenkins to GitHub Actions) and **LLM serving/LLMOps**
- Design, build and deploy AI components like **semantic search, RAG tasks, text classifiers, vector DBs and internal APIs**.

### Oct. 2023 – Jan. 2024 MLOps Engineer - Ryte AI

- **Lead a ML project and manage 3 junior data scientist**. This project involves multiple NLP tasks and multiple text data sources in Big Data context (Azure Databricks/PySpark).
- **Design, build and deploy** the system infrastructure and code architecture that handle the full lifecycle of models (Azure AKS/Terraform/GitHub Actions/DVC/MLFlow/W&B/Evidently).
- **Conduct multiple workshops for junior data scientists** to adopt good programming practices

### Oct. 2022 – Oct. 2023 Machine Learning Engineer - Kinetix

- Work with R&D and DevOps engineers to design, build and deploy **ML applications in large-scale context**. This involve the complete switch from a monolith app to a **micro-service approach** (AWS EKS/Terraform).
- **Handle all MLOps related topics**, like CI/CD, GPU/CUDA computation context, experiment tracking and reproducibility, model versioning and retraining strategies
- **Coach R&D engineers adopt good coding practices** by conducting multiple workshops

### Sep. 2021 – Sep. 2022 Data Scientist - Yanport

- **Design, build and deploy** an NLP system with focus on explainability (NLTK, Spacy, PyTorch, HuggingFace)
- Design, build and deploy **new features** on the home value estimate engine (CatBoost), with focus on explainability
- Maintain and deploy **data pipelines** and internal scripting
- **EDA** and ad hoc analyses, **interact with** concerned **corporate departments** and make **public presentation** of results

## Education

### 2021 – 2022

**Msc Data Science (IASD)** - Paris Dauphine - *Apprenticeship at Yanport*

### 2019 – 2021

**Msc Digital Humanities** - CNAM - *Apprenticeship at Qare*