Vincent Duchauffour
Machine Learning Operations Engineer

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Profile

I work in AI since 2019.

Over the years, I have specialized closely on software engineering aspects of machine learning projects.

This include handle the full lifecycle of models like developing, deploying and monitoring ML application for production use, building CI/CD pipelines and building end-to-end MLOps cloud solutions.

I run a Kubernetes cluster in my basement and I manage my hosts with NixOS. Their repos are open-source.

○ homelab   ○ nix-config

Skills

- Git, Linux, Bash, Python
- Docker, Kubernetes, Helm
- AWS, GCP, Terraform
- GitHub Actions, Jenkins

Languages

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

Experience

Since Nov. 2025 *Full-time* **ML Engineer / MLOps Engineer - Rizoa**

- Rewrite the core ML infrastructure to **improve deployment, model evaluation and monitoring** (GCP, Langfuse, Terraform, GitHub Actions)
- Develop and deploy **new ML features** in the core product (semantic search, RAG tasks, vector DBs) (Langchain/Langgraph, Qdrant, Langfuse)

Jan. 2024 – Oct. 2025 *Full-time* **MLOps Engineer - Stonal**

- Work with a team of AI engineers to **develop, deploy and monitor ML applications at scale** (AWS EKS, RabbitMQ, Prometheus)
- Develop and mantain **modular CI pipelines** (Jenkins then GitHub Actions) and **deployment pipelines** (Helm templates, raw Kubernetes manifests)
- **Handle MLOps topics** like model versioning and reproducibility (MLFlow), provisioning (Terraform) and **ML/LLM serving and monitoring** (vLLM, Evidently, Langfuse)
- Design, build and deploy AI components like **semantic search, RAG tasks, text classifiers, vector DBs and internal APIs** (AWS Bedrock, PGvector, FastAPI)

Oct. 2022 – Dec. 2023 *Full-time* **Machine Learning Engineer - Kinetix**

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

Sep. 2021 – Sep. 2022 *Apprenticeship* **Data Scientist - Yanport**

- Design, build and deploy an **NLP** system with focus on **explainability**
- Develop and maintain **new features** on the home value estimate engine
- **EDA** and ad hoc analyses, **interact with** concerned **corporate departments**

Sep. 2019 – Sep. 2021 *Apprenticeship* **Data Analyst/Data Engineer - Qare**

- **Design, build and deploy** ETL and ELT pipelines with data testing and modeling(Python, Airflow, SQL, Airflow, DBT)
- **EDA** and ad hoc analyses, **interact with** concerned **corporate departments**

Education

2021 – 2022 **Msc Data Science (IASD)** - Paris Dauphine *(Apprenticeship)*

2019 – 2021 **Msc Digital Humanities** - CNAM *(Apprenticeship)*

2011 – 2017 **Licence & Master of Philosophy** - Paris Nanterre