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 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'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, deploy and monitor ML applications in large-scale context** (AWS EKS/RabbitMQ/FastAPI/Evidently)
- **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*