



Vincent Duchauffour

Machine Learning Engineer

🏠 Paris, France

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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 librairies for production use, developing and monitoring ML pipelines and building robust CI/CD guidelines.

I'm currently looking towards contributing to open-source software and learning high-performance languages (C++/Rust).

Skills

- Python, PyTorch
- Linux, Shell scripts
- Git, DVC, W&B
- Docker, GitHub Actions

Languages

- French (Native)
- English

Experience

Since Oct. 2022 Machine Learning Engineer - Kinetix

- **Maintain our proprietary ML librairies** in collaboration with the R&D team and be in charge of **MLOps**-related topics, this include:
 - Rewrite large part of the ML codebase with **strong OOP principles** (SOLID principles / Design patterns / Refactoring)
 - **Design and set up the production environment** in accordance with DevOps team (AWS, code quality, shell scripting, CI/CD, Docker, unit tests, packaging, deployment)
 - Split the ML monolith into multiple independent repositories in order to move our projects towards microservice approach
 - Write from scratch a multiple object tracking library using pre-trained models
- **Lead and help** R&D engineers adopt good coding practices, be the cornerstone for establishing **production-level** ML applications, this includes conducting multiple workshops on code quality and tooling
- **Reduce by 50% the inference time** on the main ML pipeline (**PyTorch**, profilers, model serving optimization)

Sep. 2021 – Sep. 2022 Data Scientist - Yanport

- **Design, build and deploy** an improvement on existing **NLP** system with ordinal classification with focus on explainability (**NLTK**, **Spacy**, **PyTorch**, **HuggingFace**)
- Design, build and deploy **new features** on the home value estimate engine (**CatBoost**), validate these additions by ensuring that they don't have side effects on other features
- Maintain and deploy **data pipelines** and internal scripting

Sep. 2019 – Sep. 2021 Data Engineer - Qare

- **Design, build and deploy** a monitoring tool for data and ETLs quality
- **Analytics engineering** (DBT)
- **Contributing to ETLs** and RETLs (MongoDB, AWS Redshift, Salesforce)
- **EDA** and ad hoc analyses, **interact with** concerned **corporate departments** and make **public presentation** of results
- Build **Tableau** dashboards

Education

2021 – 2022

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

2019 – 2021

Msc Digital Humanities - CNAM - *Apprenticeship at Qare*

2012-2017

Licence & Master Philosophy - Paris Nanterre