

Mélissa TAMINE

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 <https://taminemelissa.github.io/>

Education

ENSAE Paris

Sep. 2021 – Nov. 2023

Master of Engineering (Double degree)

Palaiseau, France

- **Relevant courses** : Probability, Statistics, Time series, Nonparametric estimation, Advanced machine learning, Fairness and privacy in machine learning, Optimal Transport, Deep learning, Survey theory, Economics.

IMT Atlantique (formerly Télécom-Bretagne)

Sep. 2019 – Juil. 2021

Master of engineering

Plouzané, France

- **Relevant courses** : Machine learning, Deep learning, Statistics, Probability, Numerical analysis, Stochastic calculus, Management.

CPGE Gay Lussac

Sep. 2016 – Juil. 2019

*Intensive preparation courses for the entrance exams to top French Engineering schools - PCSI/PC**

Limoges, France

Professional experiences

Criteo AI Lab

May 2023 – Sept. 2023

Intern – Research scientist

Paris, France

- Literature review on data valuation methods combined with Cooperative Game Theory to quantify the value of several training datasets *i.e* their contributions to the predictions of a machine learning model.
- Design of a method for assigning a monetary value to training data of a supervised machine learning model, provided by several actors in online advertising.

Nokia Bell Labs

June 2022 – Aug. 2022

Intern – Research scientist

Nozay, France

- Fine-tuning of several language models for the semantic search task on Nokia technical documentation using two different methods: Generative Pseudo Labelling and Transformer-based Sequential Denoising Auto-Encoder.
- Implementation of a method to generate an evaluation dataset for the semantic search task on Nokia's technical documentation.

Huawei Technologies, BV

April 2021 – July 2021

Intern – Machine learning scientist

Amsterdam, Pays-Bas

- Implementation of a pipeline capable of extracting the answer to a question from a text in French.
- Implementation of a method, in collaboration with the company's Translation team, to generate question/answer datasets resembling Google's *Natural Questions* in French and Spanish.

Viséo

Feb. 2020 – March 2020

Intern – Data analyst

Toulouse, France

- Creation of five dashboards on Tableau Software enabling analytical representation of raw datasets stored in Excel files and SQL databases.

Academic projects

Multi-label genre classification of tracks | Python, Scikit-learn, Pytorch

Nov. 2022 – April 2022

- Implementation and training of several models for automatically associating one or more musical genres with a track based on certain of its characteristics.

Quiz Generator | Python, Scikit-learn, Pytorch, Stanza

Sept. 2021 – Dec. 2021

- Implementation of a pipeline made up of several language models to generate a quiz (several question/answer pairs) on a specific theme.

Skills

Programming : Python, R, Julia, Matlab, LaTeX, SQL, Java

Development : VS Code, PyCharm, Git, Docker

Languages : French (Native), English (C1), Spanish (C1)