

Thomas Gaviard

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EDUCATION

University of Lille

MSc in Data Science; Research Track

Lille, France

Sep 2022 – Apr 2024

IAE of Lille

MSc in Quantitative Finance

Lille, France

Sep 2022 – Apr 2023

Centrale Lille

MEng in General Engineering

Lille, France

Sep 2019 – Aug 2022

Lycée Louis-Le-Grand

Preparatory classes; Mathematics, Physics and Chemistry

Paris, France

Sep 2016 – Jul 2019

RESEARCH EXPERIENCE

INRIA

Internship, Research in Machine Learning

Lille, France

Mar 2022 – Aug 2022

- Worked in the MAGNET team supervised by Michael Perrot. Subject: "Fairness in Federated Learning".
- Analysed federated algorithms under fairness constraints.
- Proposed and implemented a novel approach using gradient weighting to enforce group-based fairness.

WORK EXPERIENCE

Euratechnologies

Internship, Data Scientist

Lille, France

Sep 2021 – Feb 2022

- 3 projects of 2 months in companies, supervised by professors of Centrale Lille. Valued their data using Machine Learning.
- **Project 1:** Detection of bots in a multiplayer online video game via their behaviour. Processed a big amount of data (50 Go). Implemented a framework from a research paper based on Event2Vec and Attention-based LSTM.
- **Project 2:** Detection of defects on railway rails. Fine-tuned the object detection model Yolov5 and studied expert systems.
- **Project 3:** Multivariate and multi-steps sales forecasting. Carried on exploratory statistics and implemented a LSTM-based methods. Presented the results on a web interface and deployed a pipeline on Google Cloud Platform.

Helean

Data Scientist Intern

Paris, France

Jul 2021 – Aug 2021

- Improved their forecasting model using features engineering.
- Enriched data with web scraping.

SKILLS

Programming: Python, MySQL, C/C++, Matlab, Stata, \LaTeX

Libraries: scikit-learn, pytorch, tensorflow, cython, unit-testing, poetry

Technologies: Git, GCP BigQuery, AWS Redshift

Languages: French (Native), English (Professional), Spanish (Intermediate)

RELEVANT COURSEWORK

Please visit my website for a detailed description of the major courseworks I have taken.

HOBBIES

Rugby, Running, Trek, DJing