Antoine GARIN

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Citizenship: French citizen authorized to work in the EU

Ambitious 23 years old computer science student with a keen interest in finance. Passionate about leveraging data and algorithms to tackle complex problems and develop impactful solutions that drive innovation. Looking forward to applying my programming skills and analytical mindset in a dynamic team and learn new concepts.

EDUCATION

EPFL, École Polytechnique Fédérale de Lausanne, Lausanne

Master in Computer Science and Minor in Financial Engineering   Sept 2024 - in progress

- <u>Main courses:</u> Machine Learning, Applied Data Analysis, Introduction to Finance, Derivatives, Modern Natural Language Processing, Investments

Bachelor in Computer Science   Sept 2020 - June 2024

- <u>Main courses:</u> Linear Algebra, Computer Architecture, Object-Oriented Programming, Multiprocessor Architecture, System-Oriented Programming, Functional Programming, Computer Networks, Algorithms, Artificial Intelligence

PROJECTS

Study on the Impact of Anonymization on Training Data   Feb 2024 - June 2024
Bachelor Research Project in the Computer Vision EPFL lab (CVLab)
- Implementation of different faces anonymization algorithms
- Source code exploration and usage of the OpenMMDetection library
- Analyzed the impact of anonymization on the performance of detection models on different datasets (MOT17 and Crowdhuman)

Bitcoin mid-price forecasting using the LOB   Sept 2024 - Dec 2024
Machine Learning class project
- Data exploration and data preprocessing of a 10 days Bitcoin LOB
- Implementation of a basic CNN-model coupled with the implementation of a labeling to class the mid-prices (up, down, stationary)

AI Tutor in STEM subjects   Feb 2025 - June 2025
Modern Natural Language Processing class project
- Data exploration and data preprocessing on public STEM datasets
- Implementation of SFT, DPO, RAG and Quantization on the pre-trained Qwen3-0.6B-Base model to make it more robust on STEM subjects

YouTube Data Analysis   Sept 2024 - Dec 2024
Applied Data Analysis class project
- Data exploration and data preprocessing on YouTube data using pandas
- Data and statistical analysis to better understand the evolution of YouTube using several tools such as seaborn, scipy, matplotlib and scikit-learn

TECHNICAL SKILLS

Python (NumPy, Pandas, PyTorch, Matplotlib, Scikit-learn, Transformers), Scala, Java, VHDL, Git, Vim

INTERESTS

Competitive table tennis at French national level, tennis, astronomy