François Goybet

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PROFIL

MSc Data Science student with a specialization in Financial Engineering, passionate about statistics, stochastic modeling, and Machine Learning. Skilled in coding and problem-solving, with a strong attention to detail. Seeking an internship in Data Science in Finance domain.

EDUCATION

EPFL *Lausanne, Switzerland*
Master – Data Science, specialization in Financial Engineering, Grade : 5.35/ 6 (89%) **September 2024 – Today**
Bachelor – Computer Science / Communication Systems, Grade : 5.23/6 (87%) **September 2021 – July 2024**

- **Engagement:** Teaching Assistant in Probability and Statistics and Introduction to Programming (Python), Mentoring for 1st year Bachelor students
- **Relevant Coursework:** Probability, Statistic and Stochastic Calculus, Derivatives, Time Series, Machine Learning, Applied Data Analysis, Algebra, Algorithms, Oriented Object programming
- **Academic exchange (3rd year):** Polytechnique Montréal *Montreal, Canada* **September 2023 – July 2024**

Le Bon Sauveur *Le Vésinet, France* **July 2021**
High School Baccalaureate – Scientific option, Grade : Highest Honors

- **Engagement:** Member of the student committee, music group and sportive association

INTERNSHIPS

Accelerating FPGA Routing Using ML– *EPFL Parsa* **February 2025 – Today**

- Explored processor FPGA routing optimization by analyzing how net ordering affects congestion and path cost. Developed ML-based methods to predict efficient net sequences, significantly improving routing quality in complex circuit graphs.

Predicting the occurrence of faults in Channel Tunnel - *GetLink Group Paris* **June 2024 – August 2024**

- Analyzed train operation data to optimize energy consumption and predict infrastructure faults. Used statistical modeling and machine learning (linear regression, RNNs) to quantify driver impact on energy usage and to build time series models for early detection of track defects.

Model Reporting and analysis by integrating LM – *Polytechnique Montréal* **January 2024 - May 2024**

- Built an end-to-end framework enabling natural language querying over structured data by translating user input to SPARQL using a fine-tuned language model. Integrated multiple components (NLP, LLMs, SPARQL) into a unified system hosted on AWS, using NASA JPL datasets to evaluate performance.

ACHIEVEMENTS AND SKILLS

- **1st place Citadel Quantitative Workshop –** *Forum EPFL 2024*
  - Participated to a quantitative challenge hosted by Citadel; ranked 1st place with my team.
- **Coding Language:** Python, Java, Scala, C
- **ML framework:** Sklearn, Tensorflow, Keras, PyTorch, Pandas, Numpy, Statsmodels, NetworkX
- **Tool :** Git, Bash, Linux, Quarto, Streamlit, Jupyter Notebook, AWS, VSCode, Word, Excel
- **Language:** French (native), English (fluent)

HOBBIES

- **Adventure:** Rock climbing, hiking, alpine sports, passion for mountaineering (7 Summits project)
- **Music:** 10 years of piano, music composition
- **Travel:** Traveled across Asia, Europe, Africa, and North America, born in Sri Lanka