Quentin LAO

Fourth-year student at Ecole Polytechnique (France)

Creative and **curious**. Highly motivated student with computer science and consulting experience from the past. Possessing **teamwork** skills and high **technical** skills in data science.

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🗺 Languages

- French (Native)
- English (C1 level)
- Chinese (Limited working proficiency)

</> Programming languages

Python • C/C++ • LaTeX

MongoDB • SQL • OCaml • Java

VBA • Lustre

⌨ Softwares

- Microsoft Word, Excel, PowerPoint, Power BI
- Python Librairies : Pandas, SciPy, SciKit-Learn, TensorFlow, PySpark, Plotly, Seaborn, NLTK

🎵 Hobbies

- Yearly piano concert (for 8 years)
- Playing in the volleyball team of École Polytechnique for the University League (6 hours of training a week)
- Traveling and hiking

Education

2023 - Present — **Polytechnique Montréal** — *Montreal, Canada*
Double degree in Computer Science
Relevant courses : *Business Analysis & Corporate Finance (at HEC Montreal), Data Mining & Big Data, Advanced Machine Learning (1st/195 students), Computer Vision, Natural Language Processing*

2020 - Present — **Ecole polytechnique** — *Palaiseau, France*
Top-ranking university-level school
Ingénieur Polytechnicien Program
Relevant courses : *Economics (Micro/Macroeconomics) and Business Strategy, Machine & Deep Learning, Statistics, Modeling of stochastic processes (Markov chains & Martingales), Network security*

Experience

March 2023 - August 2023 — **Machine Learning Researcher** — *Luxembourg, Luxembourg*
Interdisciplinary Centre for Security, Reliability and Trust (SnT)

- Researched cutting-edge Data Augmentation techniques for Time Series classification, culminating in the development of a dynamic decision-support tool for optimal classifier and augmentation selection.
- Wrote a research paper slated for submission and review.

June 2022 - August 2022 — **Junior consultant (People & Strategy)** — *Paris, France*
BearingPoint

- Took part in the internal organizational transformation of an industry-leading company specializing in vehicle glass repair and replacement. Led the design and deployment of a PMO-level tool.
- Collaborated in a mission of pricing calculation of an internal management software from which a French multinational hotel industry was separating.

Nov 2020 - March 2021 — **IT developer (research work)** — *Lyon, France*
Ministry of the Armed Forces

- In a team of 4, explored the state of the art of bot recognition in order to develop a Twitter bots detector using Machine Learning and wrote a final paper that summarizes the project.
- Structured and managed databases in MongoDB.

Projects and Achievements

🏆 **BCG Gamma Hackathon** (our team secured **2nd place** in the Final Ranking) : Mission on delivery optimization for a client. Accomplished tasks : explained our approach, explored data, developed first algorithm prototypes, and delivered comprehensive presentations of our recommendations and the subsequent action plan.

🏆 **Ivanhoe Cambridge Interuniversity Challenge** (our team secured the **3rd place**) : in a team of 3, we conducted quantitative analyses to assess the effects of hybrid working arrangements on the financial performance of various real estate assets.

</> **Collaborative project with the startup** *Accenta* : Optimization of a low-carbon building heating using reinforcement learning (team project).

🖉 **La Fresque du Climat Facilitator** : Hosted educational workshops for young people in order to encourage them to get engaged in climate issues.

🎥 **Short film interuniversity contest "Le Rush"** (our team won the **Grand Prize**) : in a team of 6, we represented the Video Association of students at Ecole Polytechnique (JTX). We got 36 hours to come up with a scenario, filming, and editing.