

Clément Bourtguize-Ramel

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Professional and Academical experiences

- 03/24-current **Data Scientist, Bobbee, Paris.** The first mission i was assigned was to build statistical and ML strategies leveraging accounting data to simplify and augment management control workflows. The most impactfull project was an auto-ML forecasting engine that had to accomodate the very diverse nature of accounting time series data. This was made possible by a number of technical choices and empirical workarounds. The model was presented at the congret des Experts Comptables 2025 and was welcomed by customers. I currently continue driving innovation in this area while shifting my work towards LLMs systems..
- 09/23-03/24 **Data Science Internship, Bobbee, Paris.**
- 10/22-06/23 **Yearlong group project, Télécom Paris & Safran, Palaiseau.** The goal is to provide a prototype for data augmentation using diffusion models. After a litterature review on generative A.I applied to images (VAE, VQ VAE, GANs) the group efforts were focused on state of the art practices. My contributions first focused on understanding the underlying mathematics and later shifted on applying the frameworks to biological data.
- 06/21-06/22 **Sabbatical, Bartender, The Great Escape, Lausanne.**
- 02/20-02/21 **Research Year, EPFL, Laboratory of nanostructured materials.** The aim of this project was to obtain an innovative measurement of the CISS (Chiral Induced Spin Selectivity) effect. The first 4 mounths focus was literature research. Lab work was then comprised of getting acquainted with experimental technics and tools, building the experimental setup, designing and crafting the samples, making the first measurements. After iterative improvements, a signal hiding nanovolt noise forced to change the experimental strategy, data treatment and sample design. Despite, encouraging results were obtained and I trained a student to continue this research.
- 07/19-08/19 **Data Science Internship, EPFL, Crystal Growth Facility.** The amount of data that the laboratory had to deal with was preventing the use of the regular fitting softwares. I had to develop a tool to overcome that challenge.

Education

- 2022-2024 **Mastère spécialisé Big Data : Gestion et Analyse de données massives,** Télécom Paris.
- 2018-2021 **Master of Science in Physics,** École Polytechnique Fédérale de Lausanne.
- 2013-2018 **Bachelor of Science in Physics,** École Polytechnique Fédérale de Lausanne.

Technical Skills

- code Python (Pandas, Plotly, statsmodels, scikit-learn,...), SQL
- Time series Prophet, (S)ARIMA(X), ETS, STL ...
- LLMs RAGs, MCPs, Agents, HuggingFace
- Entry Level skills Docker, AWS, GCP, CI/CD (GitHub Actions), Linux
- Accounting Thanks to my current job, I had to acquire knowledge about accounting.

Languages

French Native

English TOEFL iBT : 110/120.

Certifications

- Google Skill Google Cloud Computing Foundations Certificate
- Google Skill Developing Applications with Cloud Run Functions on Google Cloud
- INSIDE LVMH Creation & Branding, Retail & Customer Experience.
- Anthropic Introduction to Model Contexte Protocol
- Anthropic Model Contexte Protocol: Advanced Topics
- HuggingFace Fundamentals of MCP
- HuggingFace AI agents Fundamentals
- Rutgers Supply Chain Management Specialization
University