Louis BERTOLOTTI

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Education

Ecole Polytechnique   2020 - 2022
Ecole Polytechnique & HEC Paris "Data Science for Business" Joint Degree **-** Master of Science – **#3 Worldwide in Data Analytics** (QS 2022)

- Mathematical courses about the main supervised and unsupervised **machine learning algorithms**. Application to deep learning python projects including data pipelines design and hyperparameters optimization phases, such as **anomaly detection** on **stock volatility matrices** and **airlines attendance prediction** projects;
- Study of **MLOps** and big data processing techniques: Git, Docker, SQL, Spark, Streamlit.

HEC Paris   2017 - 2022
"Grande Ecole" Program (MiM) – **#2 Master in Management worldwide** (2021 FT Masters in Management rankings)

- Courses on how to apply **data science solutions to consulting problems** with **BCG Gamma, Eleven Strategy** and **Capgemini**. Case study on a consumer funnel problem and study of a reinforcement learning project;
- **Data science applied to finance** courses, with applications of machine learning to a FinTech lending case. Research paper on the performance of **quantitative VC funds compared to classical VC funds**.

Paris-I Sorbonne University   2017 - 2018
Bachelor of mathematics and computer science applied to economics (L3 MIASHS)

- Calculus, probabilities and Python courses for statistical modelisation of financial and economics topics.

Institution Saint-Jean, Douai   2014 - 2017
Economics and mathematics "classe prépa" (French prep school for top business schools admittance test)

- General courses : mathematics (probabilities, calculus and algebra), history, philosopy, English and Spanish.

Professional experience

Data analytics teacher in Paris   2021 - 2022
Teacher at DataBird, a data analytics school

- Machine learning and python lessons given to 25 students. Design of MOOC courses on ML and on no-code tools.

Data Engineer – MLOps in Paris   2021
6-month internship in the DataLab of Crédit Agricole, a leading French bank

- Design of a **MLOps platform** deployed in 39 regional offices on **Kubeflow** performing machine learning models **drift detection** in production;
- Deployment of **machine learning experiences protocols** using git tags, DVC and MLFlow in the data science team in order to provide a **40% reduction** in prototyping developement time;
- Research and development on state-of-the-art DevOps tools : Kubernetes, GitOps pipelines.

Data scientist and strategy consultant in Paris   2020
6-month internship in Eleven strategy, a strategy and digital transformation consulting firm

- **Enhancement of a highway predictive maintenance** project on Python using a random forest model;
- **NLP analysis** of social media posts using python and the blob library for an invitation to tender;
- **3-weeks long due diligence** for a French Private Equity fund about a technological target;
- Definition of the **strategy** of a French start-up specialized in electronic goods refurbishing.

Data analyst for AODocs in Paris, France and in Atlanta, United States   2019 - 2020
6-month internship in AODocs, a document management company built in Google Cloud

- Internal SQL reporting with **BigQuery**, including the design of a dashboard containing more than 80 KPIs for a French leader in chemicals built with Data Studio;
- **Client churn** prediction in python using machine learning and Salesforce and BigQuery APIs;
- Design of a **heatmap visualisation** with the D3 javascript library deployed in Data Studio in order to enhance clients usage analysis.

Other experiences

Teacher for business schools oral admittance tests preparation   2020 - 2021
Institution Saint-Jean, Douai

Skills and hobbies

- **Code** : Python (streamlit, DVC, MLFlow, pandas, numpy, scikit-learn, Keras packages), SQL, Git, Google Cloud (BigQuery, Colab), Kubeflow.
- **Languages** : French (native), English (C1 level), Spanish (intermediary).
- **Hobbies** : US comic books, soccer, guitar.