

Hugo Le Moine

DATA SCIENCE · PYTHON PROGRAMMING

☎ +33 6 35 26 40 40 · ✉ hugo.le-moine@outlook.fr · 💻 hugo-le-moine · 🏠 hugolmn.github.io

Data scientist with 4 years of experience leveraging data science methods to solve industry challenges.

Work Experience

Pierre Fabre Group — Data Center of Excellence

Lavaur, France

DATA SCIENTIST

Sep. 2021 — now

- Key Opinion Leader mapping by scrapping & building data pipelines using Kubeflow and Snowflake.
- NLP applied to clinical trials to automate chemgenomics database crossing, accelerating experts' screening.
- Organizational effectiveness: graph theory applied to interactions, to monitor the company's transformation.

Airbus Commercial Aircraft — Acoustics Department

Toulouse, France

DATA SCIENTIST APPRENTICE

Sep. 2018 — Aug. 2021

- Anomaly detection in flight recordings and automation of the cleaning: costs and time cut by >90%.
- Data analysis: monitoring of production quality and root cause analysis of identified drifts.
- Clustering of flight trajectories to improve noise map accuracy and facilitate traffic growth simulations.
- Optimization of engine design using genetic algorithms and surrogate modeling (deep learning).

Academic Projects

University of Waterloo — Ubiquitous Health Technology Lab

Waterloo, Canada

RESEARCH PROJECT IN COOPERATION WITH UTC

Sep. 2020 — Jan. 2021

- Analysed and cleaned motion data from 100 000+ smart thermostats (>600GB of data).
- Prediction of the number of occupants in homes to study the impact of confinement on habits.

SNCF — French National Railway Company

Paris, France

EXPERIMENTAL TEAM PROJECT, SUPERVISED BY SNCF RESEARCHERS

Feb. 2020 — June 2020

- Optimized the economic performance of high-speed trains by searching the most efficient design of operation.
- Reduced energy consumption and respected a constraint of delay, using dynamic programming.

Education

University of Technology of Compiègne (UTC)

Compiègne, France

5-YEAR COMPUTER SCIENCE AND ENGINEERING DEGREE (EQUIV. MSC) — GPA: 4.49/5.00

Sep. 2015 — Aug. 2021

- Computer science, information technology, operations research, mathematics & statistics.
- Economics, competitive intelligence, business strategy.

Riga Technical University

Riga, Lettonie

6-MONTH EXCHANGE PROGRAM (ERASMUS)

Août 2017 — Jan 2018

- Courses in English — AI, object-oriented programming, business analytics, IT project management.

Skills

Python Programming DevOps	Data processing (pandas · numpy · dask) · Data visualization (matplotlib · seaborn · plotly)
	Machine learning (scikit-learn · keras/tensorflow · XGBoost) · Optimization (scipy · pymoo)
	Python · SQL · Spark · C/C++ · R · Prolog · HTML/CSS
	Git · Docker · AWS · Azure/Databricks · Palantir Foundry/Skywise · Kubeflow

Languages

French (native) · English (C1 - TOEIC 985/990) · Spanish (B2) · Chinese (HSK3) · Latvian (A1)

Extracurricular Activity

Since 2018 **Training Manager & Photographer**, Pics'art — *photography skills development organization*
2018 — 2019 **Local Representative, Head of Communication**, Erasmus Student Network Compiègne
2016 — 2017 **President**, La Foulée UTCéenne — *running club*
2015 — 2017 **Volunteer Rescue Worker**, La Croix Blanche — *first-aid organization*