

Hugo Le Moine

DATA SCIENCE · PYTHON PROGRAMMING

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Data scientist with 4 years of experience leveraging data science in healthcare and aerospace industries.

Work Experience

Pierre Fabre Group — Data Center of Excellence

DATA SCIENTIST

Lavaur, France

Sep. 2021 — now

- Created a Key Opinion Leader identification and mapping platform from scratch: 100k-1M€ saved annually.
- NLP applied to clinical trials, automated chem-genomics database crossing: screening time cut by >1000 hrs.
- Network and graph theory applied to email interactions, to monitor the organizational effectiveness.

Airbus Commercial Aircraft — Acoustics Department

DATA SCIENTIST APPRENTICE

Toulouse, France

Sep. 2018 — Aug. 2021

- Anomaly detection in flight noise recordings and automation of the cleaning: costs and time cut by >90%.
- Data analysis to monitor production quality and perform root cause analysis of identified drifts.
- Clustering of flight trajectories to improve noise map accuracy and facilitate traffic growth simulations.
- Optimization of engine design to increase efficiency using genetic algorithms and neural networks.

Academic Projects

University of Waterloo — Ubiquitous Health Technology Lab

RESEARCH PROJECT IN COOPERATION WITH UTC

Waterloo, Canada

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

EXPERIMENTAL TEAM PROJECT, SUPERVISED BY SNCF RESEARCHERS

Paris, France

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)

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

Compiègne, France

Sep. 2015 — Aug. 2021

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

Riga Technical University

6-MONTH EXCHANGE PROGRAM (ERASMUS)

Riga, Lettonie

Août 2017 — Jan 2018

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

Skills

Python	Data processing (pandas · numpy · dask) · Data visualization (matplotlib · seaborn · plotly) Machine learning & NLP (scikit-learn · tensorflow · XGBoost · spacy) · Optimization (scipy · pymoo)
Programming	Python · SQL · NoSQL · Spark · C/C++ · R · Prolog · HTML/CSS · Flask/Dash
DevOps	Git · Docker · Kubernetes · AWS · Azure/Databricks · Palantir Foundry · 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*