

Hugo Le Moine

DATA SCIENCE · PYTHON PROGRAMMING

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Data scientist with 3+ years of experience leveraging data science methods to solve industry challenges.

Work Experience

Pierre Fabre Group — Data Center of Excellence

DATA SCIENTIST

Lavaur, France

Sep. 2021 — now

- NLP applied to clinical trials: automatic detection of molecules, accelerating domain experts' screening.
- Organizational effectiveness analysis: graph theory applied to people interactions.
- Key Opinion Leader identification and mapping

Airbus Commercial Aircraft — Acoustics Department

DATA SCIENTIST APPRENTICE

Toulouse, France

Sep. 2018 — Aug. 2021

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

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

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*