Hugo **Le Moine**

DATA SCIENCE & ENGINEERING · PYTHON PROGRAMMING

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Data scientist with 5 years of experience leveraging data science in healthcare and aerospace industries.

Work Experience

MSD France — *CoE Insight, Analytics & Data*   *Paris, France*
SENIOR DATA SCIENTIST   *Jan. 2023 — Now*

- Improve efficiency of oncology business operations through data analysis, RPA, reporting.
- Development of a visit suggestion engine, based on CRM data (Veeva), to optimize coverage and minimize driving distance.

Pierre Fabre Group — *CoE Data*   *Lavaur, France*
DATA SCIENTIST   *Sept. 2021 — Nov. 2022*

- Key Opinion Leader mapping platform developed from scratch: >100 users, 100k-1M€ saved annually.
- NLP applied to clinical trials, to automate database crossing: time cut by >1000 hours annually.
- Network and graph theory applied to employees interactions, to monitor the organizational effectiveness.

Airbus Commercial Aircraft — *Acoustics Department*   *Toulouse, France*
DATA SCIENTIST APPRENTICE   *Sep. 2018 — Aug. 2021*
In charge of exploring and testing potential data science use-cases within the department, including:

- Automation of flight data cleaning using anomaly detection methods : costs and time cut by >90%.
- Optimization of engine design to increase efficiency using genetic algorithms and neural networks.

Academic Projects

University of Waterloo — *Ubiquitous Health Technology Lab*   *Full Remote, Canada*
RESEARCH PROJECT IN COOPERATION WITH UTC   *Sept. 2020 — Jan. 2021*

- Analyzed 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**   *Sept. 2015 — Aug. 2021*

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

Riga Technical University   *Riga, Latvia*
6-MONTH EXCHANGE PROGRAM (ERASMUS)   *Aug. 2017 — Jan. 2018*

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

Languages

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

Extracurricular Activity

Since 2021   **Side-projects**, Quantified Self App, Twitter Bot
2018 — 2021   **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*

Tech Stack

Programming Languages

- Python · SQL · HTML · CSS

Data Science

- **Data processing**: pandas · numpy · pyspark · dask · scipy
- **Data visualization**: matplotlib · seaborn · plotly/dash · altair · streamlit
- **Machine learning**: scikit-learn · keras · tensorflow · XGBoost · spaCy

Databases

- PostgreSQL · Redshift · Snowflake · CockroachDB · SQLite · Neo4j

IaaS & PaaS

- Azure · Google Cloud Platform · Palantir Foundry · Dataiku

DevOps

- **VCS/SCM**: git · GitHub · GitLab
- **CI/CD**: GitLab CI/CD · Azure Pipelines
- **Linting & formatting**: pylint · ruff · black
- **Testing**: pytest · coverage · selenium · playwright

Development Environment

- **IDEs**: VS Code · Jupyter · PyCharm · Google Colab
- **Package and env management**: conda · PyPI