# 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

Working for the oncology business unit, customer engagement, omni-channel communication.

#### 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) · Latvian (A1)

## **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  $\cdot$  C  $\cdot$  C++  $\cdot$  R

#### Data Science \_\_\_\_

- Data processing: pandas · numpy · pyspark · dask · scipy
- Data visualization: tableau · matplotlib · plotly · altair
- Machine learning: scikit-learn · keras · tensorflow · XGBoost · spaCy

#### Databases .

- **SQL**: MySQL · PostgreSQL · Snowflake · CockroachDB · SQLite
- NoSQL: MongoDB · Neo4j

#### Web Apps \_

Frameworks: Dash · Flask · Streamlit
 Web design: HTML · CSS · Bootstrap

#### laaS & PaaS \_

- Azure: VMs · Pipelines · DevOps · Databricks · Database for PostgreSQL
- GCP: Cloud Functions · Cloud Run · Artifact Registry · Scheduler · Pub/Sub · Drive API
- AWS: EC2 · S3
- Palantir Foundry: Contour · Quiver · Code Repositories · Slate
- Dataiku: DSS
- Heroku: Dyno · Postgre

## DevOps \_\_

- VCS/SCM: git · GitHub · GitLab
- CI/CD: GitLab CI/CD · Azure Pipelines
- **Testing**: PyTest · Selenium
- **Deployment**: Docker · Kubernetes · Portainer
- Monitoring: Kibana · Portainer

## **Development Environment**

- Operating Systems: Windows · Linux
- IDEs: VS Code · Jupyter · Google Colab
- Package and env management: Anaconda · PyPI