

CLEMENT LABRUGERE

clement.labrugere@gmail.com @

+33 6 85 68 03 49 ☎

/in/clement-labrugere in

github.com/clabrugere 🐙

Senior Data Scientist with hands-on expertise in data engineering, machine learning and optimization. I thrive in applying cutting edge data science technologies to challenging business problems in dynamic environments, collaborating with both business stakeholders, technical experts and leaders.

skills

Programming

Python Scala SQL
JavaScript git Docker

Data Science stack

Spark Pandas numpy SciPy
numba Scikit-learn Pytorch
XGBoost/LGBM Plotly Dash
PowerBI Matplotlib FastAPI
Streamlit Databricks AWS

Methods

- Supervised & unsupervised machine learning
- Time Series analysis
- Simulation, optimization

languages

French native ●●●●●●

English proficient ●●●●●●

Spanish intermediate ●●●●●●

Chinese beginner ●●●●●●

projects

- Packaged machine learning model deployed with FastAPI
- 10 machine learning algorithms with Numpy only
- Wide-Resnet with Pytorch applied to image classification
- Fast Dynamic Time Warping algorithm implementation
- Streamlit application to optimally balance a portfolio

professional experience

Senior Data Scientist

Decathlon Technologies

2022 → present

Lille, France

- **Lead development of data science use cases** applied to retail pricing, support PM on use case framing, lead technical choices, own the Data Science workflow to foster production-ready and scalable solutions by design
 - > Developing a **modular pricing engine** aiming at providing a systematic way of passing through cost increases
 - > Building a **query engine to identify products with similar sales dynamics** in order to help qualify price changes impact on sales performance
 - > Modeling **customer baskets with graphs to study products interactions** and segment product's catalog in order to apply differentiated pricing strategies

Data Scientist

Air Liquide

2019 → 2021

Paris, France

- **Manage data science projects** from initial framing to deployment: data engineering and analysis, development of machine learning or optimization models and deployment in production
 - > Implemented an **optimization model to suggest gas production policies** on a network so to maximize CO2 allowances surplus under the EU ETS Phase 4
 - > Built a **forecast model estimating the helium demand** on the US market to improve helium supply, reducing ISO hold time and cutting ISO inventory requirement by up to 50%
 - > Developed a **simulation model to benchmark revenue models** in order to support the design of disruptive commercial offers while managing risk
 - > Delivered an **end-to-end BI solution for EU-wide monitoring of medical gas operations** in 2 weeks during the COVID crisis to manage bottlenecks
- In charge of internal Data Science competitions federating a community of 300 data science enthusiasts within the company

Data Analyst

Air Liquide

2017 → 2019

Frankfurt, Germany

- Developed and deployed an **end-to-end BI solution** to monitor industrial performance with over 1000 users allowing for self-BI within the organization
- Performed **statistical exploratory data analysis** leveraging advanced SQL queries, data mining, modeling and visualizations for business stakeholders
- **Product Management of an internal reporting solution** and managing a team of external developers for maintenance and feature development

education

Master of Science in Mechanical Engineering

Shanghai Jiao Tong University

2014 → 2016

Shanghai, China

Master of Engineering and Management

Ecole Centrale de Lille

2012 → 2014

Lille, France