CLEMENT LABRUGERE

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Seasoned **Data Scientist** with applied experience in data processing, data mining, predictive modeling and visualization to solve complex business problems, I aspire to master all the components of machine learning products development and deployment workflows.

skills

Methods

- Supervised & unsupervised machine learning
  tabular, time series. Deep learning for computer vision and NLP
- Simulation and optimization

Python frameworks & tools

- Pandas, numpy, SciPy
- Scikit-learn, Pytorch, XGBoost/LGBM
- Plotly, PowerBI, Matplotlib
- FastAPI, Streamlit, Dash

DevOps

- git (github & gitlab)
- Cloud computing notions (AWS/Azure)
- Docker

Database engineering

- PostgreSQL
- Microsoft SQL Server

personal projects

- Packaged ML model exposed with FastAPI
- Streamlit application to rebalance a portfolio
- Wide-Resnet from scratch in Pytorch to classify images
- 10 classical ML algos implemented in Numpy

languages

French

English

Mandarin

notions   native

experience

Data Scientist / Data Project Leader – Air Liquide
2019 → ongoing

Digital Factory | Paris, France

- Deliver Data Science projects from initial framing to delivery: **data engineering & analysis, development of optimization and machine learning models** in an agile mode
  - > Implemented a**n optimization model** to suggest H2 production policies on a network so to maximize CO_2 allowances surplus under the ETS Phase 4 scheme of the European Commission
  - > Built a **hierarchical forecast model** estimating the helium demand on the US market to improve raw product supply and dispatch. Packaged and supported **model deployment in Azure**
  - > Produced a **methodology and simulation model** to estimate the impact of new revenue models on revenue streams 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 gases operations **in 2 weeks** at the height of the COVID crisis
- In charge of internal Data Science competitions federating a community of 300 data science enthusiasts within the company.

Data Analyst – Air Liquide
2017 → 2019

Large Industries | Frankfurt Am Main, Germany

- **Developed and deployed an end-to-end BI solution** to monitor industrial performance (>1000 users worldwide)
- **Performed various statistical exploratory data analysis**: advanced SQL queries, data mining, modeling and visualizations for business stakeholders
- **Product Management** of an internal reporting solution (front & backend) with external developers for maintenance and feature development

Planning Engineer intern – Total E&P
april → august 2014

Moho Nord Project | Pointe-Noire, Republic of the Congo

- Developed a planification tool for offshore operations that automatically loads, visualizes and detects potential planning interferences to ensure smooth operations of subsea equipment installation

education

MSc. in Mechanical Engineering
2014 → 2016

Shanghai Jiao Tong University | Shanghai, China
Specialization in numerical analysis applied to fluid dynamics, heat transfer and solid mechanics

Master's degree in Engineering and Management
2012 → 2014

Ecole Centrale de Lille | Lille, France