

# 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
  - Worked on a **non-linear optimization model** to suggest H2 production policies on a network to maximize CO2 allowances surplus under EU ETS Phase 4 scheme, **deployment in Dataiku DSS**
  - 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 equipments installation

## education

### MSc. in Mechanical Engineering

2014 → 2016

Shanghai Jiao Tong University | Shanghai, China

### Master's degree in Engineering and Management

2012 → 2014

Ecole Centrale de Lille | Lille, France