# CLEMENT
# LABRUGERE

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I am a business acumen **Data scientist** with a solid hands-on expertise in data engineering, machine learning and optimization. I thrive in applying cutting edge data science technologies to complex problems resolution in dynamic environments, collaborating both with business and technical experts.

## skills

### Methods
- Supervised & unsupervised machine learning
- Simulation and optimization

### Programming
- Python, SQL, JS/TS
- git (github & gitlab)
- Cloud computing (AWS/Azure)
- Docker

### DS frameworks & tools
- Pandas, numpy, SciPy
- Scikit-learn, Pytorch, XGBoost/LGBM
- Plotly, PowerBI, Matplotlib
- FastAPI, Streamlit, Dash

### Database engineering
- PostgreSQL
- Microsoft SQL Server
- NoSQL

## 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**
native
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**English**
business fluent
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**Spanish**
basic
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## experience

### Data Scientist / Data Projects Leader – Air Liquide
2019 → ongoing

Digital Factory | Paris, France

- **Lead Data Science projects** from initial framing to deployment: data engineering & analysis, development of optimization/machine learning models and deployment in production
  - > Implemented an **optimization model to suggest H2 and CO production policies** on a network so to maximize $CO_2$ allowances surplus under the EU ETS Phase 4 scheme to limit risk exposure and provide critical insights
  - > Built a **hierarchical 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 **methodology and simulation model** to benchmark new revenue models in order to support the design of disruptive commercial offers while managing risk and suggest price points
  - > **Delivered an end-to-end BI solution** for EU-wide monitoring of medical gases 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

Large Industries | Frankfurt Am Main, Germany

- **Developed and deployed an end-to-end BI solution** to monitor industrial performance with over 1000 users, several dashboards and allowing self BI
- **Performed various statistical exploratory data analysis**: 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

### 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