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github.com/clabrugere

Experienced Data Scientist in data processing, data mining, predictive modeling, optimization and visualization to solve complex business problems, I aspire to master all the components of machine learning algorithms development, deployment and monitoring workflows.

skills experience

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
- NoSOL

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

Data Scientist / Data Projects Leader - Air Liquide

 $2019 \rightarrow \text{ongoing}$

Digital Factory | Paris, France

- Deliver Data Science projects from initial framing to deployment: data engineering & analysis, development of optimization/machine learning models and support for deployment in production, in an agile mode
 - Implemented an optimization model to suggest H2 production policies on a network so to maximize CO2 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 during 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

 $2017 \rightarrow 2019$

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

languages

French native

English

business fluent

Spanish basic

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MSc. in Mechanical Engineering

 $2014 \rightarrow 2016$

education

Shanghai Jiao Tong University | Shanghai, China

Specialization in numerical analysis applied to fluid dynamics, heat transfer and solid

Master's degree in Engineering and Management

 $2012 \rightarrow 2014$

Ecole Centrale de Lille | Lille, France