



## QUENTIN RAQUET

Leveraging my **7 years** of experience in data science, I operate as a **freelance machine learning scientist** in Paris

### CONTACTS

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### PROGRAMMING

python, pytorch, pandas,  
numpy, scikit-learn  
★★★★★

git, SQL, pyspark, plotly, scipy  
★★★★★

seaborn, dash, tableau, mlflow  
★★★★★

docker, flask, fastAPI, GCP, AWS  
★★★

keras, tensorflow  
★

### LANGUAGES

French ██████████  
English ██████████

### SKILLS

- Data Science
- Machine / Deep Learning
- Natural language processing
- Time series
- Software development
- Cloud computing
- Data visualization
- Programming
- Project management
- Statistical Analysis

### HOBBIES

Passionate about sport, practice running, triathlon, football, tennis...

Spent the last 6 months traveling in Southeast Asia



## EXPERIENCE (7 years)

### MACHINE LEARNING SCIENTIST III, Expedia (Worldwide Travel Company)

Geneva — 1,5Y — March 2022 - September 2023

Product-oriented machine learning project using databricks (design, development, deployment). Main projects on time series forecasting and causal ML.

#### Accomplishments:

- One-year prediction of hotel occupancy using time series models (NN architecture based on LSTM) on a huge database. Significantly improved RMSE metric (**pytorch[GPU], pyspark**)
- Integration into a recommendation product for hotel manager (**airflow, pySpark, ONNX**)
- Project lifecycle management / teamwork: design with business assistance, integration with data engineers' help, user support, and simplification

### SENIOR R&D DATA SCIENTIST, Algoan (AI start-up in finance)

Paris — 1,5Y — October 2020 - February 2022

Focus on R&D tasks and production using google cloud. Main projects on NLP and credit scoring.

#### Accomplishments:

- Named entity recognition and categorization on financial transactions using custom BERT language model: conception / development / production. Accuracy has been improved from 80% to 96% on categorization (**python, pytorch, hugging face**)
- Score interpretability (**catboost, shap, captum**)
- Product development using popular data science frameworks (**numpy, pandas, sklearn...**)

### PROJECT / R&D DATA SCIENTIST, Dreamquark (AI start-up in finance)

Paris — 2,5Y — March 2018 - October 2020

Building auto ML software for financial services. Realization of data science and research projects to develop innovative technologies and services around artificial intelligence.

#### Accomplishments:

- Auto ML software development (**python, pandas, numpy, sklearn...**)
- ML algorithm implementation, integration and production: NN, boosting, random forest...
- Delivery client projects on several issues: cross-sell, scoring, recommendation

### DATA SCIENTIST, BNP Paribas ALM Treasury

Paris — 1,5Y — October 2016 - February 2018

Financial modeling of the bank's liquidity and interest rate risk. Machine learning project from the construction of the model to the implementation in the systems.

#### Accomplishments:

- ML models implementation in R and Python (**pandas, numpy, H2O**)
- Management of a trainee on a Machine Learning project



## EDUCATION (Statistical engineer)

### MASTER DEGREE IN ENGINEERING, ENSAI (Engineering school in statistics)

Rennes — 3Y — 2013 - 2016

Statistics, economics, computing. Specialization in Risk Management and Financial Engineering. Statistical Theory, Machine Learning, Statistical Software: R, SAS.



## PROFESSIONAL DEVELOPMENT

### DATA SCIENCE COMPETITIONS

- 6th at kaggle cat-in-the-dat-ii (<https://www.kaggle.com/c/cat-in-the-dat-ii>)
- top 10 at Wind Power forecasting (<https://challengedata.ens.fr/challenges/34>)

### PERSONAL PROJECTS - CERTIFICATIONS

- Web scraping using BeautifulSoup4 package ([https://github.com/quentin-raquet/scraping\\_projects](https://github.com/quentin-raquet/scraping_projects))
- Build web app to learn web development tools and technologies: html, css, javascript, react...
- Coursera - deeplearning.ai - [ML Projects](#) / [NN and Deep Learning](#) / [Improving Deep NN Structuring](#)

### OPEN SOURCE CONTRIBUTION

- TabNet (<https://github.com/dreamquark-ai/tabnet>)
- SHAP (<https://github.com/slundberg/shap>)