

Amine RABHI

+33 7 69 22 52 42 | mohamed.rabhi@polytechnique.edu | [linkedin.com/in/amine](https://www.linkedin.com/in/amine) | aminerrabhi.github.io/

EDUCATION

Ecole Polytechnique

Master of Science in Applied Mathematics, Computer Science and Economics

Paris, FR

Aug. 2018 – May 2021

Lycée Sainte Geneviève preparatory class

A two-year intensive program in Mathematics, Physics and Computer Science

Versailles, FR

Aug. 2016 – May 2018

EXPERIENCE

Research Assistant

Storelift

June 2020 – September 2020

Paris, FR

- Optimized the video tracking on Amazon Go-like stores using cutting-edge deep-learning methods
- Implemented a new generation of tracking algorithms based on reinforcement learning

Oral Examiner

Lycée Sainte-Geneviève

September 2019 – May 2020

Versailles, FR

- Tutoring preparatory-class students in one of the best school in France
- Organizing oral exam session on several topics like Algebra and Calculus

Mission Leader

Fondation du Lycée Louis-le-Grand

September 2018 – April 2019

Paris, FR

- Volunteer at Lycée Louis-le-Grand Foundation, assistant of its Executive Officer
- Teacher Assistant at Lycée Louis-le-Grand, one of the top-ranking High School and preparatory class in France
- Oral examiner of the preparatory-class students

PROJECTS

EfficientNet for image detection | *Python:NumPy,PyTorch*

May 2020 – June 2020

- Implemented an efficient image classifier based on a 2019 article
- Adapted a classification method to detection using Faster RCNN
- Tested an efficient detection method on a Kaggle dataset

Credit scoring project with BNP Paribas | *Python:NumPy,pandas,scikit,PyTorch*

September 2019 – April 2020

- Analyzed impact of macroeconomic factors on probability of default for credit scoring
- Cleaned and analyzed real life data with data science visualization tools
- Developed forecasting models for credit scoring using Random forest and deep neural networks

USER SCHEDULING IN 5G | *Python:NumPy*

December 2019 – January 2020

- Focused on a user scheduling problem with a combinatory point of vue
- Resolved a linear programming problem using greedy and dynamic algorithms

SKILLS

Languages: Native speaker in French and Arabic; Fluent in English; Basic Spanish and Russian skills

Mathematics skills: Probability, Statistics, Optimisation, Calculus and Algebra

Technical skills: Python, Java, CamL,

Libraries: pandas, NumPy, Matplotlib, scikit, PyTorch

ACHIEVEMENTS

First prize at the Maths Olympiad in Morocco

Excellence Major Scholarship recipient