Amine RABHI

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Education

Ecole Polytechnique — Paris, FR
Master of Science in Applied Mathematics, Computer Science and Economics — *Aug. 2018 – May 2021*

Lycée Sainte Geneviève preparatory class — Versailles, FR
A two-year intensive program in Mathematics, Physics and Computer Science — *Aug. 2016 – May 2018*

Experience

Research Assistant — June 2020 – September 2020
Storelift — *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
- Explored ways to visualize GitHub collaboration in a startup setting

Oral Examiner — September 2019 – May 2020
Lycée Sainte-Geneviève — *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 — September 2018 – April 2019
Fondation du Lycée Louis-le-Grand — *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 2013 – 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, LATEX
Libraries: pandas, NumPy, Matplotlib, scikit, Pytorch

Achievements

First prize at the Maths Olympiad in Morocco
Excellence Major Scholarship recipient