Looking for a permanent contract in Finance/Data Science



# Issame SARROUKH

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## Education

**Centrale de Lyon, Master's degree in engineering**
Branch : mathematics & risk engineering
Profession : Consultant        |2016-2019

**Lyon 1 University, Double degree.**
Master 2 Data Science        |2018-2019

**Preparatory classes**
mathematics and physics
                        |2013-2016

**Baccalaureate**
Option : Mathematical Sciences
                        |2012-2013

## Skills

**Language skills :** French - Fluent , Arabic – Native. English – full professional proficiency

**Programming skills :** Python, sklearn, Tensorflow, Building Python libraries, Java, R, Matlab, Linux, git, Json, mySQL, HTML, CSS, JS, Django, Flask, Android Studio, XML, Pack Office (Word, Excel, PowerPoint, Access).

## Certificates

Deep learning courses (Deep learning.ai Coursera), Machine learning (Udemy), Java, Python and C++ (Sololearn), Python, Problem solving (Golden badges Hackerrank), C++ (Silver badge) Follow this link

## Hobbies

Judo, reading, traveling, Video games.

## Courses followed

**Centrale Lyon**

Introduction to financial mathematics, stochastic processes, Data Mining and Big Data, Big Data IT Challenges, Deep Learning, Algorithms for Business Decision Making, Python programming language, Computer Networks, Structured Data Manipulation. Statistics applied to engineering sciences, applied and numerical analysis, probability and statistics, finite elements, optimization, Consulting.

**Lyon 1 University**

Machine Learning, probabilistic graphical models, Big Data Analytics, Cloud Computing. Inferential Statistics, Regression Models, Data Mining, Mathematical Basics for Data Science.

## Internships

**Apri-Oct'19  Data Scientist (AI Research Team)**        Amadeus, Sophia Antipolis, France
Participate, with the Artificial Intelligence team, in the writing of a technical paper, as well as the design and implementation of a tool to assist the quality assurance engineer, combining new and known probabilistic and machine learning approaches, to statistically assess the bug potential of the different components of an application on the basis of changes made to code.

**Jun-Sep'18  R&D engineer**        Egis International, Lyon, France
Creation of a mobile application to monitor user displacement. Development of a user interface written in Python to get a view of user's points of interest based on an unsupervised Machine Learning algorithm.

**Jul-Aug'17  Operator**        LABOTEST
Making experiments on materials to confirm their compatibility with the standards set by the construction company.

## Projects

**2018-2019  School projects**        Lyon 1 university
Working on several projects ranging from anomaly detection to a chatbot model (link).

**Jan-Mar'19  Finance project**        Centrale Lyon
Pricing d'une option américaine et européenne avec plusieurs méthodes employant R et Python pour une configuration discrète et continue du temps.

**Jan-Mar'19  Final Year Project**        MI Department of Centrale de Lyon
Development of a reinforcement learning agent to play Ms. PACMAN (an AtARI Game) based on three models : simple Deep Q-Network, Noisy Double Dueling DQN and N-step Double Dueling DQN.

**2017-2018  Research Project**        MI Department de l'Ecole Centrale de Lyon
Simulating an investor's portfolio based on Markowitz's theory, and its integration into a website that uses IEX data to predict the ratios to invest in each company. The site (for use only in a local server) written in Python uses Pandas library to process the data in real time.

**2016-2017  Research project**        MI Department de l'Ecole Centrale de Lyon
Designing, with a team of 6 people, the application Parktout, available on Google Play Store, that helps the inhabitants of the city of Lyon to find a vacant place in a parking lot. Creating a statistical model to obtain the probability of finding a parking space based on the database extracted from the Data Grand Lyon website.

## Extracurricular activities

A member of the organizing team of "Séminaire Consultant 2018" and the creator of the website for the event, (response delay due to free server).
The communication manager of Maroc Ecole Centrale de Lyon club.