Imad EL HANAFI

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Available for a position in Data Science / Machine Learning, starting in April 2018

EDUCATION

2017 – 2018 MSc in Data Science, Ecole Polytechnique, Paris-Saclay University, France

MSc in Data Science at the Ecole Polytechnique (Top ranked French engineering school).

Advanced Machine learning, Statistical Learning Theory, Big Data Analysis,

Probabilistic Graphical Models, Deep Learning and Online Learning.

2014 – 2018 Master of Engineering, ENSTA ParisTech, Paris-Saclay University, France

Simulation and Mathematical Engineering, major in Optimization and Data Science. Operational Research, Probability theory - Martingales and Markov Decision Process,

Advanced Statistics, Numerical Analysis, Computational Finance and module in Stochastic Models.

2012 – 2014 Preparatory school (CPGE), Lycée Moulay Youssef, Rabat, Morocco

Specialized in Mathematics, Physics and Computer Science – MPSI – MP*

Intense preparation for entrance examination to the French Graduate Ecoles

ORGANISATION, RESPONSIBILITIES AND EXPERIENCES

SEP. 16-AUG. 17 Junior Quantitative Analyst, Crédit Agricole CIB, Paris (6 months) – New York (6 months)

• Participated in the development and monitoring of quantitative methods of risk assessment and cash flow models used to structure, analyze and operate Securitization transactions. Data analysis of loan databases using *Pandas* and *SQL*.

MAY 16-AUG. 16 Research Internship, Department of mathematics, Leeds University, UK

• Testing a mathematical model to predict the formation of support and resistance levels against market data using R and Python.

This project is based on optimal stopping theory, statistical modeling and data analysis. *Nominated for Best Research Internship at ENSTA ParisTech*.

AUGUST 2015 Worker Internship, Gunma, JAPAN

• Internship in Caro Foresta Resort Hotel.

2014 – 2015 International relations - Forum TRIUM, Paris

• Organized student forum in partnership with Mines ParisTech, Ponts ParisTech and ENSAE engineering schools (140 companies, 5000 visitors and 670.000€ turnover).

ACADEMIC PROJECTS

2015 – 2016 C++ Project

• Advanced project in C++ based on Operations research algorithms for trajectory planning in a complex environment.

2014 – 2015 Reinforcement learning - A mid-size project written in Python

 Designed an algorithm where an agent learns to select actions that optimize rewards using Markov Decision Process and Monte-Carlo methods.

HONORS AND AWARDS

2015	Winner of EBEC France: A real time engineering competition - Case study
2014	French Government's Major-Excellence Scholarship
2012	Excellence scholarship, Hassan II Academy of Science and Technology, Morocco
2012	Winner of the general competition in science and technology in Physics, Morocco

SKILLS AND INTERESTS

LANGUAGES

Computer: Microsoft office, Linux, Latex, C/C++ English (full proficiency),

Python, R, MATLAB, SQL, Spark French (bilingual), Arabic (native)

Sports: Swimming (weekly training) and hiking and Japanese (beginner)