Imad EL HANAFI

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CV for a 6-month internship in 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)