Mouad HADJI

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MSc in Applied Mathematics. 5+ years of experience in data science and product strategy.
Specialities : Data Science, Machine Learning (DL, NLP, RL), Financial Modeling, Business Strategy. Interests : Energy, Mobility

Professional Experience

Tesla   Palo Alto, CA (USA)

2019-Now **Lead Data Scientist**, Product Reliability
- Founded the energy reliability data science team, overseeing a 100% yoy growth rate activity
- Led all reliability data science strategy and framework for vehicle and energy products
- Launched suite of scalable company-wide data products enabling fleet-wide data analysis

2015-2018 **Senior Data Scientist**, Global Service & Customer Experience
- Led department data team strategy and roadmap to enable decision-making at a global level
- Extensively used large scale data to provide actionable insights and strategic recommendations to Service, Customer Experience and Quality teams impacting a customer base that grew from 100k to 700k
- Designed automated data pipelines and quantitative analyses including comprehensive financial statements and warranty models bringing visibility to company worldwide field operations (directly overseen by VP)
- Built and automated text-processing pipelines bringing insights over 4M+ of yearly contacts, leading to company first natural language processing engine to enable auto-ML
- Developed a suite of executive-level dashboards to track worldwide fleet metrics, sustain 10x sales growth, improve field productivity by 5x, and ultimately increase customer satisfaction

Argos Wityu   Paris (FR)

2014-2015 **Investment Research Analyst**
- Worked within a pan-European private equity group managing more than $1.3B+ in assets
- Collected and analyzed quantitative data around potential acquisition targets and portfolio companies
- Developed and maintained financial models featuring complex investment scenarios

Tesla   Palo Alto, CA (USA)

Jan-Sep 2014 **Data Analyst Intern**
- Performed advanced data analysis to support strategy for global vehicle connectivity and software partnerships
- Supported new market entries (incl. Australia, China, France) enabling fleet broadband connectivity and delightful customer experience for the early 100k+ owners
- Led algorithm design and field programs in Europe leading to $2M+ in cost savings

BNP Paribas Corporate and Investment Banking   London (UK)

Jun-Dec 2013 **Investment Banking Analyst Intern**
- Involved in advisory of transactions in the Energy and Infrastructure sectors for EMEA
- Performed advanced financial modeling, drafted pitch-books and participated in client presentations
- In 2014, the team was ranked 1st in advisory and arranging by the Infrastructure Journal

Education

Ecole Polytechnique   Palaiseau (FR)

2015 **Data Science Program** : Machine Learning, Convex Optimization, Data Mining, etc.

MINES ParisTech Graduate School   Paris (FR)

2008-2014 **BSc** & **MSc** at the "French MIT". **Major** : Applied Mathematics - **Minor** : Economics
Relevant coursework : Mathematics, Operations Research, Computer Science, Probability Theory, Statistics, Stochastic Processes, Data Analysis, Economics (Commodity, Industrial, Micro, Macro)

Skills

Programming	**Full level** : Python, R, Git, Unix/Bash, Tableau, PowerBI, Advanced Excel, HTML, CSS - **Exposure to** : d3.js
Database	**Full level** : SQL, NoSQL, HDFS, Spark, Impala/Presto - **Exposure to** : Scala
DevOps	**Full level** : Ansible, Docker, Nginx - **Exposure to** : Kubernetes
Languages	Native **French**, Fluent **English** (TOEIC : 980/990), advanced level in **Spanish**

Personal

Interests : Soccer (9 years of practice - incl. French National Championship 3rd level), Half-marathons, Economics
Volunteering : Academic Tutor for MINES ParisTech's equal opportunity programs (2011-2014), SF-Marin Food Bank (2018-present)
Cultural Experience : Worked in 4 different countries (France, UK, USA, Canada) and visited over 25 countries in 4 continents
Continuing Studies : Stanford's CS224n (Deep Learning for NLP, by Richard Socher) and CS231n (CNNs for Visual Recognition, by Andrej Karpathy), Udacity (degrees : Self-Driving Car Engineer, Deep Reinforcement Learning)