

# 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

	<b>Tesla</b>	Palo Alto, CA (USA)
2019-Now	<b>Lead Data Scientist</b> , Product Reliability <ul style="list-style-type: none"><li>- Founded the energy reliability data science team, overseeing a 100% yoy growth rate activity</li><li>- Led all reliability data science strategy and framework for vehicle and energy products</li><li>- Launched suite of scalable company-wide data products enabling fleet-wide data analysis</li></ul>	
2015-2018	<b>Senior Data Scientist</b> , Global Service & Customer Experience <ul style="list-style-type: none"><li>- Led department data team strategy and roadmap to enable decision-making at a global level</li><li>- 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</li><li>- 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)</li><li>- 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</li><li>- 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</li></ul>	
	<b>Argos Wityu</b>	Paris (FR)
2014-2015	<b>Investment Research Analyst</b> <ul style="list-style-type: none"><li>- Worked within a pan-European private equity group managing more than \$1.3B+ in assets</li><li>- Collected and analyzed quantitative data around potential acquisition targets and portfolio companies</li><li>- Developed and maintained financial models featuring complex investment scenarios</li></ul>	
	<b>Tesla</b>	Palo Alto, CA (USA)
Jan-Sep 2014	<b>Data Analyst Intern</b> <ul style="list-style-type: none"><li>- Performed advanced data analysis to support strategy for global vehicle connectivity and software partnerships</li><li>- Supported new market entries (incl. Australia, China, France) enabling fleet broadband connectivity and delightful customer experience for the early 100k+ owners</li><li>- Led algorithm design and field programs in Europe leading to \$2M+ in cost savings</li></ul>	
	<b>BNP Paribas Corporate and Investment Banking</b>	London (UK)
Jun-Dec 2013	<b>Investment Banking Analyst Intern</b> <ul style="list-style-type: none"><li>- Involved in advisory of transactions in the Energy and Infrastructure sectors for EMEA</li><li>- Performed advanced financial modeling, drafted pitch-books and participated in client presentations</li><li>- In 2014, the team was ranked 1st in advisory and arranging by the Infrastructure Journal</li></ul>	

## Education

2015	<b>Ecole Polytechnique</b> <b>Data Science Program</b> : Machine Learning, Convex Optimization, Data Mining, etc.	Palaiseau (FR)
2008-2014	<b>MINES ParisTech Graduate School</b> <b>BSc &amp; MSc</b> 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)	Paris (FR)

## Skills

<b>Computing Database Languages</b>	<b>Full level</b> : Python, R, Git, Unix/Bash, Tableau, PowerBI, Advanced Excel - <b>Exposure to</b> : HTML/CSS, d3.js SQL, NoSQL, HDFS, Spark, Impala, Presto Native <b>French</b> , Fluent <b>English</b> (TOEIC : 980/990), advanced level in <b>Spanish</b>
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## 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)