Raihane SIDHOUM

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raihaen.github.io

Education

2024 – Present	**HEC Paris** Grande Ecole Programme – 3.77 GPA • Key subjects: Financial Markets, Monetary Economics and Sovereign debt, Corporate Structuring, Financial Economics, Python	**Paris, France**
2021 – 2024	**Ecole Nationale Polytechnique - ENP** Grande Ecole Programme, Engineering • Key subjects: Machine Learning, Probability, Statistics, Markov Chains, Mathematical and Statistical Modelling, Big Data, Object Oriented Programming	**Algiers, Algeria**
2019 – 2021	**Ecole Nationale Polytechnique d'Oran – ENPO** Preparatory Classes in Science and Technology • Top 5% in the National Competition for access to Grandes Ecoles • Key subjects: Analysis, Algebra, Physics, Computer Science, Differential Calculus	**Oran, Algeria**
2016 – 2019	**National High School of Mathematics Mohand Mokhbi** Baccalaureate with honours, Mathematics track • Excelled in multiple national and regional mathematics competitions	**Algiers, Algeria**

Professional Experience

03/24 – 07/24 05 months	**SLB – Oil & Gaz Service Industry** *Supply Chain and Data Science Intern* • Collected data on the loading and unloading of vehicles (+60 operation) in the Domestic Logistics fleet. • Analysed sources of delay (dwell time) and extracted their root causes • Presented corrective actions and designed a digital solution architecture to ensure real-time monitoring of the effectiveness of the corrective actions • Determined the optimal daily order for trucks to perform loading and unloading using various metaheuristics, with an objective function based on the total truck time simulated using Monte Carlo methods, projecting a 30% time gain	**Hassi Messaoud/Algiers, Algeria**
01/24 – 02/24 01 month	**Kaoua Foods – Agri-food Industry** *Dev Intern* • Created a Python program to digitize the entry and exit of pallet flows between Stock and Production minimizing counting errors by 87% • Integrated the program with the company's ERP (Odoo variant)	**Algiers, Algeria**
04/23 – 06/23 03 months	**Biopharm – Pharmaceutical Industry** *Supply Chain and Data Analyst Intern* • Conducted a 5-criterion comparative study between the ERP used by the company and 6 alternatives to enhance the Information System environment • Created a Python script semi-automating production scheduling using metaheuristics, reducing scheduling time by 76%	**Algiers, Algeria**
07/23 – 09/23 02 months	**Lamielle- SETS Partners – Agri-food Startup** *Supply Chain Intern* • Reorganized the company's warehouse by modelling its flows, improving customer order satisfaction by 15% • Built an Excel model predicting warehouse occupation needs for the following year	**Algiers, Algeria**

Extracurricular Activities & Projects

2025	**Dynamic Volatility Graphing App - (Link)** • A Web App that calculates Implied Volatility, SABR Volatiliy (and its deviation from IV) as well as Dupire's local volatility - Real time graphing for any ticker. Created using Streamlit and Python.
2018 - Current	**International Mathematical Olympiad** • Algeria's Contestant 3 at IMO 2018 and Contestant 2 at IMO 2019 • Honourable Mention at the 2019 International Mathematical Olympiad • Organized several training camps online and in person with +100 participants • Coached the Algerian MO team during preparations for various competitions – Specialization : Combinatorics and Euclidean Geometry
2023	**Industrial Engineers Club (IEC) – *President*** • Managed a team of +80 members, a network of +440 Alumni and +10 000$ in resources • Organized +10 events with professional, scientific and cultural focus - Key Events : Algeria Data Cup, IEC Business Game, TEDxENP • Coordinated a gathering of 70+ Alumni in Paris, France

Languages & IT Skills

Languages	**English :** Fluent (TOEIC 990) – **French :** Fluent (TCF C2) – Arabic : Native
IT Skills	**Python, C++, AppsScript, VBA, MS Office**
Interests	**Puzzlescript – Cooking – Go – Boxing**