

Raihane SIDHOUM

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Education

2024 – Present	HEC Paris Grande Ecole Programme – 3.77 GPA <ul style="list-style-type: none">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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">Top 5% in the National Competition for access to Grandes EcolesKey subjects: Analysis, Algebra, Physics, Computer Science, Differential Calculus	Oran, Algeria
2016 – 2019	National High School of Mathematics Mohand Mokhbi Baccalaureate with honours, Mathematics track <ul style="list-style-type: none">Excelled in multiple national and regional mathematics competitions	Algiers, Algeria

Professional Experience

03/24 – 07/24	SLB – Oil & Gaz Service Industry <i>Supply Chain and Data Science Intern</i>	Hassi Messaoud /Algiers, Algeria
05 months	<ul style="list-style-type: none">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 causesPresented corrective actions and designed a digital solution architecture to ensure real-time monitoring of the effectiveness of the corrective actionsDetermined 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	
01/24 – 02/24	Kaoua Foods – Agri-food Industry <i>Dev Intern</i>	Algiers, Algeria
01 month	<ul style="list-style-type: none">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)	
04/23 – 06/23	Biopharm – Pharmaceutical Industry <i>Supply Chain and Data Analyst Intern</i>	Algiers, Algeria
03 months	<ul style="list-style-type: none">Conducted a 5-criterion comparative study between the ERP used by the company and 6 alternatives to enhance the Information System environmentCreated a Python script semi-automating production scheduling using metaheuristics, reducing scheduling time by 76%	
07/23 – 09/23	Lamielle- SETS Partners – Agri-food Startup <i>Supply Chain Intern</i>	Algiers, Algeria
02 months	<ul style="list-style-type: none">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	

Extracurricular Activities & Projects

2025	Dynamic Volatility Graphing App - (Link) <ul style="list-style-type: none">A Web App that calculates Implied Volatility, SABR Volatility (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 <ul style="list-style-type: none">Algeria's Contestant 3 at IMO 2018 and Contestant 2 at IMO 2019Honourable Mention at the 2019 International Mathematical OlympiadOrganized several training camps online and in person with +100 participantsCoached the Algerian MO team during preparations for various competitions – Specialization : Combinatorics and Euclidean Geometry	
2023	Industrial Engineers Club (IEC) – President <ul style="list-style-type: none">Managed a team of +80 members, a network of +440 Alumni and +10 000\$ in resourcesOrganized +10 events with professional, scientific and cultural focus - Key Events : Algeria Data Cup, IEC Business Game, TEDxENPCoordinated 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