



Lamiaa Loukhmiri

STATISTICIAN | DATA SCIENTIST

PROFIL

A graduate in applied statistics, I excel in data science, focusing on data cleaning, statistical modeling and visualization. Motivated by intellectual challenges, I aim to strategically leverage these skills to propel my career in data science and artificial intelligence.

EDUCATION

PhD candidate in Machine Learning for Metaheuristics	2022/2024
-Faculty of Sciences Ain Chok Casablanca	
Master's degree in Numerical Methods and Applied Statistics.	2020/2022
- Faculty of Sciences Ain Chok Casablanca	
Bachelor's degree in Mathematics and Applications.	2016/2020
- Faculty of Sciences Ain Chok Casablanca	
High School Diploma in Mathematics.	2016
- ALKHAOUARIZMI High School	

EXPERIENCES

FREELANCE DATA SCIENTIST	10/2024 - Present
Fiverr	
<ul style="list-style-type: none">Offer data analysis and predictive modeling services to diverse clients.Create reports and insights to support data-driven decision-making.Utilize Python, R, and SQL for data mining and machine learning.Develop visualizations and dashboards for complex datasets.	
DATA ANALYST (INTERNSHIP)	09/10/2023 to 09/01/2024
Sofrecom (Orange affiliate)	
<ul style="list-style-type: none">Problem: Manual data visualization and KPI tracking due to data disorganization and lack of data links.Methods: Data analysis and organization in SQL, automated data visualization and dashboard creation in Power BI using DAX language and Python algorithms.Measurable results: 100% automation of KPI calculations.	
MASTER'S THESIS PROJECT	02/2022 to 06/2022
Faculty of Sciences Ain Chok Casablanca	
<ul style="list-style-type: none">Sequence Alignment Optimization: Developed a Python-based alignment algorithm using advanced metaheuristics. Results: Reduced computation time, improved alignment accuracy, and more precise identification of conserved motifs.	
BACHELOR'S DEGREE THESIS PROJECT	02/2020 to 07/2020
Faculty of Sciences Ain Chok Casablanca	
<ul style="list-style-type: none">Portfolio Optimization: Automated financial data processing, time-series analysis, and multi-objective optimization (Markowitz principle, NBI method). Results: +8% portfolio returns, -5% risk through better diversification.	

PROJETS

<u>Microdonnées du HCP : Une lentille pour comprendre la pauvreté au Maroc</u>
<u>Casablanca Stock Exchange Analysis and Forecasts</u>
<u>Credit Card Fraud Detection using Machine Learning</u>
<u>Auto Hall Stock Price Prediction (LSTM).</u>
<u>Binary Classification with a Bank Churn Dataset</u>
<u>Exploring spam messages using NATURAL LANGUAGE PROCESSING</u>
<u>Analysis of GDP (Gross Domestic Product) in Africa</u>

CONTACT

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SKILLS

- Programming:** Proficient in Python, R, SQL, Power Bi.
- Statistical Analysis:** Linear & logistic regression, ANOVA, hypothesis testing, time series analysis, econometrics
- Machine Learning & AI:** Supervised learning (regression, classification), unsupervised learning (clustering, PCA), NLP, ANN & deep learning, forecasting, data mining, feature engineering
- Data Wrangling & Analysis:** Data collection, cleaning, preprocessing.
- Data Visualization:** Creating insightful visualizations using tools like Matplotlib, Tableau.
- Big Data Technologies:** Knowledge of platforms like Hadoop, Spark, Hive.
- Cloud Technologies:** Basic knowledge of AWS, GCP, and Azure.
- Frameworks:** TensorFlow, Scikit-learn, XGBoost, Matplotlib, Keras, PyTorch .
- Communication & Collaboration:** Effective written and verbal communication, teamwork, and cross-functional collaboration

LANGUES

Arabic: Native language.
French: Fluent.
English: Proficient