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.

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.
- **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: Intermediate

EDUCATION

PhD candidate in Machine Learning for Metaheuristics   **2022/2024**
-Faculty of Sciences Aïn Chok Casablanca

Master's degree in Numerical Methods and Applied Statistics.   **2020/2022**
- Faculty of Sciences Aïn Chok Casablanca

Bachelor's degree in Mathematics and Applications.   **2016/2020**
- Faculty of Sciences Aïn Chok Casablanca

High School Diploma in Mathematics.   **2016**
- ALKHAOUARIZMI High School

EXPERIENCES

DATA ANALYST   (INTERNSHIP)   **09/10/2023 to 09/01/2024**
Sofrecom (Orange affiliate)
- 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 Aïn Chok Casablanca
- Problem: Enhancing multiple sequence alignment efficiency to identify conserved motifs.
- Methods: Created an alignment algorithm using advanced metaheuristics in Python to cut computation time.
- Measurable results: Significantly reduced computation time, improved alignment accuracy, and enhanced the identification of conserved motifs with greater precision.

BACHELOR'S DEGREE THESIS PROJECT   **02/2020 to 07/2020**
Faculty of Sciences Aïn Chok Casablanca
- Problem: Optimization of portfolio management to maximize returns and minimize risks.
- Methods: Automated import and processing of financial data. In-depth analysis to select the most promising stocks. Use of time-series analysis techniques to identify trends and inflection points. Advanced modeling of portfolio performance and risk using the Markowitz principle and the Normal Boundary Intersection (NBI) method for multi-objective optimization.
- Measurable results: Portfolio returns increased by 8%. Investment risk reduced by 5% through more effective diversification.

PROJETS

Microdonnées du HCP : Une lentille pour comprendre la pauvreté au Maroc

Casablanca Stock Exchange Analysis and Forecasts

Credit Card Fraud Detection using Machine Learning

Auto Hall Stock Price Prediction (LSTM)

Binary Classification with a Bank Churn Dataset

Exploring spam messages using NATURAL LANGUAGE PROCESSING

Analysis of GDP (Gross Domestic Product) in Africa