Chaimae M'saad

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https://github.com/ChaimaaeMsaad/Data-Science

Data Scientist
with a passion for data-driven optimization

Internationally minded Data Scientist with hands-on experience in data analysis, statistical modeling, and machine learning. My proficiency in Python, R, and SQL enables me to create predictive models that provide insights for business solutions and decision-making. I excel at identifying problems and developing effective solutions. As a co-worker, I am driven, independent, and thrive in a hectic work environment with room for smiles. I have a keen interest in Danish culture and am currently learning Danish.

DS skills

Skill	Level	Skill	Level	Skill	Level
Python	●●●●●	ETL Process	●●●●○	Machine Learning Techniques	●●●●○
Django	●●●○○	Data Warehousing	●●●●○	Statistical Analysis	●●●●●
R	●●●●○	A/B Testing	●●●○○	Deep Learning	●●●●○
SQL	●●●●●	Data mining	●●●●○	Agile methodologies	●●●●○
MS Azure	●●●●○	Data preparation	●●●●●	Data Vizualization	●●●●●

Education

2021-2023   **MSc. In Data Science And Cloud Computing**   **University of Mohammed I**

Focused on developing data-driven solutions, predictive modeling, and cloud-based architectures, with project work addressing real-world business challenges through machine learning and data analysis.

Skills: Data analysis, cloud computing, machine learning, deep learning, big data, Spark, Python, R, SQL, NoSQL

My role in group work was often as the initiator, systematic and a positive team player.

Projects:
- **Cloud-Based Pipelines for Machine Learning Models**
  Developed and deployed machine learning models in cloud environments using Docker, Kubernetes, and Spark.
- **Predictive Models for Data Insights**
  Built predictive models using Python and SQL to derive insights from large datasets.

2017-2021   **BSc. of Science in Engineering**   **University of Mohammed I**

Projects:
- **Heat Transfer Modeling:**
  Used C++ and mathematical modeling to analyze heat transfer in engineering systems.
- **Structural Analysis Through Mathematical Modeling**
  Used MATLAB for mathematical modeling and analysis of mechanical components.
- **Electromagnetic Field Simulation**
  Used C++ to simulate electromagnetic fields in various materials.

Experience

February 2024-July 2024   **Co-Founder & Data Scientist**   **Nomad Budget, Remote**

As a co-founder and data scientist, I played a pivotal role in developing a user-centric recommendation feature using data processed from the Numbeo API. I gradually took on more responsibility throughout the project.

Tasks:
- Development of a recommendation system
- API integration
- Data quality checks and user feedback evaluation
- A/B testing, achieving 30% improvement in model accuracy

Skills:
- Data-driven product development
- Proficient in Python for data analysis
- ML techniques for model optimization
- Data quality assessment

March 2023 - August 2023   **Data Scientist Intern**   **Ventus Tech GmbH,Stuttgart,Germany**

Technology company focused on precision road weather solutions for EVs, logistics, and autonomous vehicles.
I worked on predictive modeling using RWIS data.

Tasks:

- Aggregation and preparation of RWIS data
- Development of an LSTM model,improving accuracy by 3%
- Creation of visualizations and reports for insights
- Collaboration with the team to test model performance

Skills:

- Data mining , Data Visualization
- Good understanding of RNNs
- Teamwork (Jira, GitLab)
- Automated testing

July 2022 - September 2022   **Data Engineer Intern**   **Neoxia , Casablanca ,Morocco**

A Deloitte business focused on digital transformation, specializing in business technology consulting, digital solutions, and data/AI engineering.

Tasks:

- Migration of databases to Azure Synapse
- Management of data in Azure Data Lake
- Design of ETL processes in Azure Data Factory
- Development of Power BI dashboards
  for visualizing sales data

Skills:

- Azure services (Synapse, Data Lake, DF)
- Data architecture design and management
- ETL development
- Data visualization (Power BI)

August 2021 - October 2021   **Data Scientist Intern**   **LafargeHolcim, Meknes ,Morocco**

Construction solutions group focused on innovative products for sustainable urbanization.
I worked on predictive modeling to forecast when vibration levels would exceed the 0.7 DPA danger threshold.

Tasks:

- Data analysis and preprocessing
- ARIMA and statistical methods for time series analysis
- Development and optimization of machine learning models
- Collaborated with the team to evaluate model performance

Skills:

- Data Wrangling
- Time series analysis
- Statistical methods
- Predictive modelling

Languages

Arabic ●●●●● Native
English ●●●●○ Advanced ability
French ●●●●○ Advanced ability
Chinese ●●●○○ Understanding normal conversations,working on talking
Danish ●●○○○ Comprehending simple vocabulary and expressions

Spare time

All over interest in data science and cloud technologies, continuously learning new data science models and tools. I like to keep up to date with the trends in my field and industry.
In my spare time, I enjoy reading psychology and philosophy books, playing chess online or with family, and staying active through regular workouts.

References

Available upon request