

Hachcham Marwane

Data Engineer

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SUMMARY

Results-driven professional with meaningful experience working alongside major industry players, developing core expertise in software optimization, data-driven insight extraction, and high-performance systems. Passionate about Big Data, Machine Learning, and Robotics, with a proven ability to turn complex problems into actionable, value-generating solutions through analytical rigor and innovative execution.

EDUCATION

Faculty of Sciences of Rabat

Master's degree - 2024 :
Sciences & Data Engineering

Bachelor of Excellency - 2022:
Electronics, Computer Sciences & Robotics

PROFESSIONAL EXPERIENCES

ENDURADATA Inc. | Eden Prairie, Minnesota
Data Engineering

Full Mentorship - August 2023 July 2024

- **Development and deployment of high-performance data pipelines using Python**, with a focus on Big Data extraction, parsing, normalization, and transformation for advanced analytics, for model readiness and ensure consistency for **downstream analysis**.
- **Leveraged advanced feature engineering and statistical analysis techniques to extract actionable insights** and generate clear, decision-oriented visualizations tailored for business and technical stakeholders.
- **Implemented a wide array of machine learning models** (linear, tree-based, kernel-based, probabilistic, and neural architectures) for predictive analysis and system behavior modeling.
- **Applied advanced hyperparameter optimization using Optuna** (pruning, resource-aware tuning, and parallel execution) to significantly enhance model performance, training efficiency and prediction Results.
- **Delivered production-grade ML workflows that enabled accurate forecasting**, anomaly detection, and performance optimization through streamlined data-to-model pipelines.

SAFRAN ELECTRICAL&POWER
Application and Solution Manager

Internship - May to October 2024

- **Identification and Design of a tailored solution adapted to the specific management requirements**, and alignment with the maintenance department needs
- **Development of a comprehensive DataBase, indexing more than 15,000 tools**, to enable efficient tracking, management and the efficient allocations of resources.
- **Implementation of Advanced Data Analysis** on the DataBase to extract meaningful insights and the creation of tailored KPIs, guiding strategic decision-making.
- **Design of a tailor-made application**, ensuring clarity and relevance of key performance performance indicators (KPIs) while meeting user expectations.
- **Expertise in managing deadlines, deliverables and stakeholder communications**, ensuring a smooth and efficient development process.

INSOFT
DataBase Migration

Internship - July to September 2023

- **In-depth analysis of an existing database to identify critical structures**, relationships and data to be migrated.
- **Curation and refinement of the identified data**, to a new structure, using Microsoft SQL Server and VS 2022, while preserving data integrity and quality.
- **Integration & Deployment of the new database** with pipelines that enables automated updates

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SKILLS & TECHNOLOGIES

- Critical Thinking
- Problem Solving
- Scrum - Gantt
- Python
- SQL
- Article writing
- Data Management
- Data Visualization
- PowerBI - MSSQLserver
- Office 365 - VS.2022
- PowerShell - CLI - WSL
- HTML/CSS
- Project Management
- Prompt Engineering
- Robotics
- Dev - Web
- Data based Storytelling
- Creativity

ASSETS

- pandas
- numpy
- Matplotlib
- Seaborn
- Plotly
- Statsmodels
- Scikit-learn
- XGBoost (xgboost)
- LightGBM (lightgbm)
- CatBoost
- Optuna
- Tensorflow
- Streamlit
- Flask
- Torch
- NLTK
- Ollama
- RE

INNOVATION CONTEST

Innovation City, Rabat - 2021

- **Project manager, design and assembly of a functional prototype** of an obstacle detection device for visually impaired people, called "Smart ODD".
- **Finalist in the competition with the "Smart ODD" project.** Participation in seminars and workshops on entrepreneurship, developing key skills in innovation and project management.
- **Training in storytelling and the art of pitching** to effectively present innovative projects.

Lions Club International : Renaissance - District 416

Club Secretary

- **Management of the social media platforms** E-mail, Instagram and LinkedIn, and of the communication of the Lions Club Renaissance.
- **Manager for the AfricaForum - Marrakesh 2024 platform**, managing registrations and reservations, as well as checking the integrity of the Data entered, allowing the collection of over 1M MAD.
- **Participation in humanitarian projects in the Rabat area:** classrooms (Tiflet - Rabat), diabetes screening, circumcisions and donations.

ACTIVITE EXTRA UNIVERSITAIRE

Innovasus Club President

- **Management of club activities, definition of annual missions** and Planification of main objectives, including training members in various fields and organizing practical workshops.
- **Creation of a web page dedicated to the club's activities via GitHub Pages**, with the setting up of a common directory for sharing collaborative projects with the "Data Science and Engineering" Master's program.

Interest

Astronomy
Automotive
Public Speaking
Entrepreneurship
Humanitarian Actions
Robotics et programmation

Langages

English - Advanced
French - C1
Arabic - native

AMBITIONS

Learn Piano or Violin
Get a GUINNESS record
Lunch my own Company
Revolutionaize an industry
1st Moroccan spatial tourist
Create 1st moroccan AI model