

YASSINE EL ALAMI

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LinkedIn — GitHub

Aspiring AI/ML Engineer & Data Scientist — Big Data & Intelligent Systems

Professional Summary

Master's student in **Big Data & Intelligent Systems** with hands-on experience in **AI, machine learning, and data engineering**. Skilled in **Python, Java, and SQL** with expertise in **predictive modeling, data analysis, and visualization**. Experienced in building **AI-driven solutions** for practical applications, including **predictive maintenance, performance optimization, and automated decision-making**. Known for **problem-solving, autonomy, and effective communication** in collaborative, data-driven projects.

Education

Master's Degree in Big Data & Intelligent Systems Faculty of Science Dhar El Mahraz, USMBA – Fès, Morocco	2024–Present
Bachelor's Degree in Computer Science Multidisciplinary Faculty of Taza, USMBA – Fès, Morocco	2020–2024

Key Projects

Speech Gender and Digit Recognition (Deep Learning)

Built a CNN model for real-time digit classification and gender detection from audio recordings. Developed a **Tkinter-based interface** for visualization and live testing.

Air Quality Prediction (Machine Learning)

Developed predictive models for PM2.5 levels and air quality index using **Python, Scikit-learn, and Pandas** to monitor environmental pollution trends.

Job Shop Scheduling Optimization (Genetic Algorithm)

Implemented an **enhanced genetic algorithm** in Python to minimize completion times and optimize production schedules. Included **logging, validation, and robust error handling**.

Pharmacy Location Finder (Python + Neo4j + GIS)

Designed an application to locate the nearest pharmacies using **Neo4j, OpenStreetMap, Folium, and OSMnx**, integrating **real-time geolocation and operational hours**.

Technical Skills

Programming: Python, Java, C, C++, R

AI & Data Science: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Neural Networks, Data Mining, Predictive Modeling

Big Data: Hadoop, Spark

Databases: MySQL, Oracle, MongoDB, Neo4j, Cassandra

Data Visualization & BI: Power BI, Matplotlib, Seaborn

Tools & DevOps: Docker, Git, Agile, UML, Merise

Web Development: Spring Boot, ReactJS, HTML, CSS

Soft Skills & Languages

Soft Skills: Problem Solving, Communication, Teamwork, Organization, Autonomy, Rigor
Languages:

- **English:** B2 – Independent user
- **French:** B1 – Intermediate user
- **Arabic:** Native