

# EL BAHRAOUI HASSAN

Gen AI Engineer in training, aspiring Data Scientist and ML Engineer, seeking PFE internship (4–6 months) starting February

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📍 Rabat, Morocco

[Github](#)

[Portfolio](#)

[LinkedIn](#)

## Education

Digital Engineering in Data Science and AI

2021 – 2026 (ongoing)

ENSAM RABAT

Rabat, Morocco

## Professional Experience

Full stack AI Developer (CDD) — SEED PARTNERS

August – September 2025 , Casablanca, Morocco

- Contributed to the development and maintenance of the NextGen Manufacturing Africa Summit website.

AI System Developer (Internship) — TUDIODEV

July – September 2025 , Rabat, Morocco

- Development of an AI system for automated invoice data extraction, integrating OCR, VLMs and LLMs.

AI Engineer (Internship) — INTELLCAP

July – August 2025 , Rabat, Morocco

- Developed MedRAG, a multimodal RAG system for chest X-ray analysis and clinical support.

AI Engineer (Internship) — VnextIA

July – August 2025 , Casablanca, Morocco

- Built a guidance chatbot for Moroccan students' post-baccalaureate choices.

AI/ML Engineer (Internship) — CodeSoft

February 2025 , Kolkata, India

- Development of machine learning projects across various domains: movie genre classification, fraud detection, customer churn prediction.

Data Scientist / ML Engineer (Internship) — Ministry of Digital Transition and Administrative Reform

July 2024 , Rabat, Morocco

- Developed a signature verification system using image processing and machine learning.

## Projects

Mindsnacks – Spotify for Learning | Python, Streamlit, Groq API, ElevenLabs, MIT Global AI Hackathon

[Demo](#)

[Github Repository](#)

- AI-driven audio learning platform with multi-language support, playlist curation, quizzes, and audio player for 5-minute snippets

IntelliPath – AI Learning Assistant | Python, Flask, Supabase, React, LangChain, Groq API, Llama, Vercel, Render

[Demo](#)

[Github Repository](#)

- Platform generating personalized syllabi and quizzes using LLMs, with an interactive interface, and integrated chatbot.

DataCarelytics – AI Medical Analytics Platform | Python, Streamlit, LangChain, Groq API, FAISS, PyTorch, Fine Tuning

[Demo](#)

[Github Repository](#)

- Modular medical diagnostics platform combining tabular, textual, and image analysis with AI chatbots and RAG.

Multi-Agent Debate System | Python, LLMs, LangChain, Streamlit

[Demo](#)

[Github Repository](#)

- Developed an AI-based debate system where agents argue, fact-check, and reach consensus.

Brain Tumor Classification with Deep Learning | Python, TensorFlow, Streamlit, OpenCV, Docker

[Demo](#)

[Github Repository](#)

- Developed Built a brain tumor MRI classifier using CNNs (ResNet50, VGG16, VGG19) achieving 98% accuracy.

Real-Time Object Detection System via Kafka and YOLO | Python, Streamlit, Kafka, YOLO, OpenCV

[Demo](#)

[Github Repository](#)

- Developed an application for sending images/videos to Kafka, object detection, and interactive UI via Streamlit.

## Skills

**AI, Machine Learning & Deep Learning:** NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, XGBoost, LightGBM, Optuna, CNNs, RNNs, LSTM, spaCy, Transformers, NLTK, Fine-tuning, RAG, LangChain, crewai, OpenCV, YOLO, GANs, Prompt engineering.

**Programming & Development:** C, Java, Python, R, Julia, Scala, Flask, Java EE, Streamlit, Gradio, Web Technologies (HTML, CSS, JavaScript), Git, GitHub.

**Data Engineering & Big Data:** Spark, Hadoop Ecosystem (Hive, HBase, Pig, Sqoop), Kafka, SQL (Oracle, MySQL, PostgreSQL, SQLite), NoSQL (MongoDB, Neo4j), Talend.

**Cloud & Infrastructure:** Linux, Docker, Kubernetes, AWS, CI/CD (Jenkins, GitLab CI, GitHub Actions).

**Data Visualization & Analytics:** Matplotlib, Seaborn, Plotly, Tableau, Power BI, Looker, Merise, UML, Knime, Alteryx, Orange DM.

**Soft Skills:** Team Collaboration, Critical Thinking, Autonomy, Punctuality.

## Certifications

Data Scientist Track Certificate – 365 DataScience

CS50 Introduction to Programming with Python – Harvard University

CCNA: Introduction to Networks – Cisco

AWS Cloud Practitioner – DataCamp

## Languages

English : Fluent (C1 – EF SET)

French : Fluent

Arabic : Native language