



# DEHBI KAMAL

Data Science, AI & Big Data Engineer

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## EDUCATION

**ENSAM Rabat : École nationale supérieure d'Arts et Métiers**  
Engineering in Data Science, AI | Integrated Preparatory Class.

Rabat, Morocco  
Sep 2021 - Present

## PROFESSIONAL EXPERIENCE

- Chatbot Development | Digiteam Archytas Conseil** Rabat, Morocco | Jul 2025 - Sept 2025
- Developed a chatbot for the Fairlynk platform using a RAG pipeline, Langchain with groq API Key.
  - Supported multilingual questions in French, English, and Spanish.
  - Built user interface using Streamlit, HTML, and CSS.
- Backend Development | Bank Al-Maghrib (Dar Assikah)** Sale, Morocco | Jul 2024 - Aug 2024
- Built a Flask API for license plate detection from images using a CNN model.
  - Achieved 95% accuracy on Moroccan plates.
  - Designed PostgreSQL database schema using SQLAlchemy.
  - Deployed the application using Docker containers.

## SKILLS

<b>Programming Languages:</b>	Python, Java, C, C++, R, Matlab, Scala, HTML, CSS, JavaScript
<b>Machine Learning - AI:</b>	TensorFlow, Keras, Scikit-learn, XGBoost, OpenCV, NLTK, Spacy, LangChain, YOLO
<b>Data Analysis - Viz:</b>	Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI, Google Looker Studio
<b>Big Data:</b>	Apache Kafka, Hadoop, Hive, Pig, Sqoop, Spark, HBase
<b>Web Development:</b>	Flask, FastAPI, Java EE, React, Streamlit, Bootstrap, Jinja, SQLAlchemy, BeautifulSoup, Selenium
<b>Tools - Platforms:</b>	Git, GitHub, Linux, Docker, VS Code, AWS Cloud
<b>Databases:</b>	MySQL, PostgreSQL, SQLite, Oracle SQL, MongoDB, Neo4j
<b>Languages:</b>	Arabic (Native), French (Fluent), English (Fluent)

## PROJECTS

- Real-Time Stream Processing with Apache Kafka** Apache Kafka, Streamlit, YOLO  
Implemented a scalable real-time data streaming architecture using Apache Kafka to process images, videos, and text data streams.
- MySQL to Hadoop Migration with Sqoop** Sqoop, Hadoop, Hive, HDFS  
Built data pipeline to transfer data from MySQL to HDFS using Sqoop and performed analysis with Hive.
- Medical Data Science Lab** Streamlit, Plotly, Scikit-Learn, LangChain  
Created interactive dashboards and visualizations for clinical datasets using Streamlit, enhancing data-driven decision making.
- ENSAM Alumni Tracking (LinkedIn)** BeautifulSoup, Selenium  
Developed web scraping tools to collect alumni data from LinkedIn, performed data analysis, and built models to predict career paths.
- Earthquake Early Warning System** Deep Learning, CNN, GNSS  
Designed CNN models using high-rate GNSS data to predict earthquake magnitude and fault lines with improved accuracy.
- Brain Tumor Classification** Deep Learning, CNN  
Developed a CNN model to classify brain tumors as benign or malignant, achieving 98% accuracy.

## CERTIFICATIONS

- AWS Cloud Practitioner (CLF-C02) - [DataCamp](#)
- CCNA: Introduction to Networks - [Cisco Networking Academy](#)
- CS50x: Introduction to Computer Science - [Harvard University \(edX\)](#)