



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

Programming Languages:

Python, Java, C, C++, R, Matlab, Scala, HTML, CSS, JavaScript

Machine Learning - AI:

TensorFlow, Keras, Scikit-learn, XGBoost, OpenCV, NLTK, Spacy, LangChain, YOLO

Data Analysis - Viz:

Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI, Google Looker Studio

Big Data:

Apache Kafka, Hadoop, Hive, Pig, Sqoop, Spark, HBase

Web Development:

Flask, FastAPI, Java EE, React, Streamlit, Bootstrap, Jinja, SQLAlchemy, BeautifulSoup, Selenium

Tools - Platforms:

Git, GitHub, Linux, Docker, VS Code, AWS Cloud

Databases:

MySQL, PostgreSQL, SQLite, Oracle SQL, MongoDB, Neo4j

Languages:

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)

Beautiful Soup, 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 \(edX\)](#)