

Hafoudhi Mourad

Master's Student in Data Science

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Profile

23 years old, I have strong expertise in Artificial Intelligence and software development. Passionate about data analysis, machine learning, and deep learning, I am seeking opportunities to contribute to innovative and high-impact projects in these fields.

Education

Faculty of Sciences of Monastir Master's in Data Science	Sept 2024 – Present
Faculty of Sciences of Monastir Bachelor's Degree in Software Engineering and Information Systems (<i>with honors</i>)	Sept 2021 – June 2024
Imtiyaz High School Technical Science Baccalaureate (<i>with honors</i>)	Sept 2020 – June 2021

Experience

Front-End Developer – WaelDocuments • Designed and implemented the front-end interface of an educational platform facilitating the management and sharing of books and documents for students and teachers. Technologies used: React, NestJS, PostgreSQL, Dropbox.	July 2025 – August 2025
Machine Learning Developer – CodeAlpha • Developed a handwritten character recognition model. • Created a disease prediction model based on medical data. • Implemented a credit scoring model using classification algorithms. Technologies used: Python, TensorFlow, Scikit-learn, Pandas, Seaborn, Matplotlib.	July 2024 – August 2024
Graduation Internship – Horizon Education • Developed a management platform for teachers and quizzes. • Integrated interactive quizzes including AI-generated images and sounds. • Integrated the quizzes into the "Madrasatouna" section of the Ferid Around the World application. Technologies used: React.js, Node.js, Express.js, MongoDB, Microsoft Azure.	February 2024 – June 2024

Projects

House Price Prediction

- Built a linear regression model to estimate house prices.
- Performed feature engineering, data cleaning, and visualization to optimize model performance.

Technologies used: Pandas, Scikit-learn, Seaborn, Matplotlib.

Titanic Passenger Survival Prediction

- Conducted exploratory analysis and data modeling to predict passenger survival on the Titanic dataset.

Technologies used: Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, GridSearchCV.

Happy Sad Image Classification

- Developed a CNN model to classify facial emotions as "Happy" or "Sad".

Technologies used: TensorFlow, OpenCV, CNN.

Brain Tumor Classification

- Developed a brain tumor classification model using Transfer Learning with pre-trained VGG19 on ImageNet.

Technologies used: TensorFlow, OpenCV, VGG19, Transfer Learning.

ANPR (Automatic Number Plate Recognition)

- Developed an ANPR model detecting vehicles and license plates using YOLO and EasyOCR, exporting results to an Excel file.

Technologies used: YOLO, EasyOCR, OpenCV, Python.

Medical Chatbot

- Built a medical chatbot capable of answering questions from the content of a medical book.
- Designed a complete pipeline for reading, vectorizing, and retrieving documents to provide reliable answers.

Technologies: Python, RAG, LLM, Pinecone, Hugging Face embeddings, Retriever.

Search Tool with LLM

- Developed an LLM-based tool to search and analyze online article content from URLs.
- Implemented vectorization, intelligent chunking, and conversational retrieval for efficient content querying.

Technologies used: LLM, Llama 3, Python, LangChain, Streamlit, FAISS, HuggingFace Embeddings.

Multi-Agent AI System for Digital Marketing

- Designed a multi-agent AI system using CrewAI to automate digital marketing.
- Coordinated four agents: *Head of Marketing*, *Content Creator*, *Blog Writer*, and *SEO Specialist*.

Technologies: Python, LLM, CrewAI, LangChain.

Skills

Programming Languages: Python, R, Java, JavaScript (React.js, Node.js), C++, C#, SQL

Frameworks and Libraries: TensorFlow, PyTorch, Scikit-learn, YOLO, OpenCV, LangChain, LangGraph, CrewAI, Hugging Face, SpaCy, FastAPI, Flask, Express.js

Data Science and Analysis: Pandas, NumPy, Matplotlib, Seaborn, Power BI

Databases: MongoDB, MySQL, PostgreSQL, Oracle

Project Management and Methodologies: SCRUM, Git, GitHub, Trello, Jira, Slack, ClickUp

Languages

English: Advanced

French: Advanced

Italian: Beginner

Arabic: Native language

Certifications

Machine Learning Specialization: DeepLearning.AI

Introduction to Data Science: 365 Data Science

Machine Learning in Python: 365 Data Science

Deep Learning with TensorFlow 2: 365 Data Science

CNNs with TensorFlow in Python: 365 Data Science