IDRISSI HAMZA

Data Scientist | AI/ML Engineer

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EXPERIENCE

AI/ML Engineer Intern
Valhko

📅 06/2025 – 09/2024   📍 Remote

- Engineered the integration of LLMs and RAG, enhancing user experience on the platform by enabling a more personalized interaction model with an average response time reduction of 30 seconds.
- Fine-tuned an LLM (GPT-4o mini) for enhanced user interaction, increasing response precision by 20% and improving task flexibility (summarization and report generation) for multiple specific tasks

Deep Learning Engineer Intern
UIR

📅 07/2023 – 09/2023   📍 Rabat

- Designed and implemented an AI-based canopy estimation system, improving agricultural productivity estimates by 15%, which led to optimized resource allocation for 3 farms.
- Optimized deep learning algorithms using PyTorch and TensorFlow, reducing computation time while maintaining model accuracy.

Software Engineer-PFE
Moulay Ismail University - FST

📅 02/2023 – 06/2023   📍 Errachidia

- Led the development of a facial recognition-based attendance system using machine learning and image processing.
- Spearheaded full project lifecycle, from design through to implementation and testing, ensuring quality standards and timely delivery.

PROJECTS

NLP - Chatbot Fine-Tuned and RAG Systems
Academic

- Engineered a chatbot fine-tuned on custom French language models (LLMs), enhancing contextual understanding and improving response accuracy.

Twitter Sentiments Analysis
Academic

- Developed a real-time sentiment prediction model for analyzing social media data streams using Python and NLP tools.

Kappa Architecture - Modern Streaming Data Architecture
Academic

- Developed a modern streaming architecture to process real-time data and extract actionable insights.

EDUCATION

MST - Artificial Intelligence and Data Sciences
Abdelmalek Essaadi University - FST

📅 09/2023 – 06/2025

LST - Bachelor of Science and Technology, Software Engineering
Moulay Ismail University - FST

📅 09/2022 – 06/2023

PROFILE

Junior Engineer in Data Sciences and AI with a passion for leveraging data to derive actionable insights. Skilled in statistical modeling, machine learning, and advanced algorithms, with a track record of designing and deploying solutions that enhance decision-making and operational efficiency. Experienced in deep learning and fine-tuning large language models for natural language processing and real-time data analysis.

MOST PROUD OF

🏆 **3rd Place at Digital Innovation and Entrepreneurship Days**
Designed an AI-based smart irrigation system, developed a web platform, and placed 3rd in the competition.

🎓 **the 3rd International Day of Computer Science and Applied Mathematics (ICSAM'23)**
Presented findings on improved facial recognition techniques(SIFT, LBPH, CNNs).

STRENGTHS

Python   JAVA   SQL   JavaScript

Hadoop   Spark   Apache Kafka   MySQL
PostgreSQL   MongoDB

TensorFlow   Keras   PyTorch   NLTK   spaCy
Gensim   Scikit-Learn

RAG Models   Fine-Tuned LLMs   Optimisation
Transformers Architectures   Prompt Engineering

Hard-working   Eye for detail
Motivator & Leader

LANGUAGES

English   ●●●◐○

French   ●●●●◐

Arabic   ●●●●●