

Idriss Khattabi

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About me

AI & Data Science Master's graduate with a strong foundation in Python, Machine & Deep Learning, NLP, Predictive Modeling, and Chatbot Development. Passionate about generative AI, AI Agents & Automation, AI-driven and data science projects. Hands-on experience in Django development and a proven ability to work collaboratively, lead, and learn quickly.

Education

M.S.T in Artificial Intelligence and Data Science

Faculty of Sciences and Technologies of Tangier

Oct 2023 – July 2025

Tangier, Morocco

BS in Computer Science and Mathematics

Faculty multidisciplinary of Larache

Oct 2019 – July 2023

Larache, Morocco

Experience

AI Engineer Intern, TNA Consulting – Casablanca

Feb 2025 – June 2025

- Developed an intelligent chatbot about African Central Banks Documents using RAG and LLMs.
- Built an smart automated ETL pipeline for scraping, processing, and integrating data into vector DB.
- Used Tools : Python, Marker, Streamlit, Apach Airflow, ETL Pipeline, Django (API), Ollama, Faiss

Skills

Programming Languages: Python, Java, C, JavaScript, SQL, Solidity, LaTeX, Bash

Machine Learning: Pytorch, TensorFlow, scikit-learn, LLM, Fine-tuning, RAG, NLP, Hugging Face

Web Development: HTML & CSS, Tailwind, JavaScript, ReactJS, and Django

Libraries & Tools: NumPy, Pandas, Matplotlib, Seaborn, OpenCV, NLTK, BeautifulSoup, Selenium, Streamlit, Apache Airflow, Apache PySpark, Apache Kafka, Flask

Data Bases: MySQL, SQL Server, PostgreSQL, MongoDB, Vector DB (Chroma, FAISS, Qdrant, Milvus)

DevOps & Workflow Tools: Linux, Git/GitHub, Microsoft Azure, Docker, n8n, Ollama, Power BI, VS Code, Jupyter Notebook

Metaheuristic & Decision-Making Algorithms: GA, PSO, ACO, TS, GWO, AHP, TOPSIS ...

Publications

Generating a Set of Consistent Pairwise Comparison Test Matrices in AHP using Particle Swarm Optimization

Apr 2024

YOUSSEF KARKOUR, CHAKIR TAJANI, *Idriss Khattabi*

10.37394/23206.2024.23.24

A metaheuristic approach to improve consistency of the pairwise matrix in AHP

Jan 2023

Zakaria TAJANI, CHAKIR TAJANI, *Idriss Khattabi*, Mohamed Sabbane

10.23939/mmc2023.04.1164

Certifications

Associate Data Scientist in Python – DataCamp

Associate AI Engineer for Data Scientists – DataCamp

Associate Data Analyst in SQL – DataCamp

Languages

English: Professional working proficiency (C1) | **French:** Professional working proficiency (B2) | **Arabic:** Native proficiency

Projects

ChatPDF – Chat with PDF Locally

[GitHub Repo]

- A local RAG web app to query PDF documents using LLMs, with support for PDF-to-Markdown conversion, vector search, and chatbot-style Q&A.
- Tools Used: Python, Streamlit, LangChain, Ollama, Sambanova, ChromaDB, Marker

AI Scraper

[GitHub Repo]

- An interactive tool to scrape, process, and structure web data using local or cloud-based LLMs.
- Tools Used: Python, Selenium, Crawl4AI, Streamlit, Ollama, Sambanova, Pandas

Moroccan Meal Recipes Chatbot

[GitHub Repo]

- An AI chatbot that uses RAG to deliver authentic Moroccan recipes with ingredients, steps, and optional images, supporting both local and cloud LLMs.
- Tools Used: Python, Streamlit, LangChain, Ollama, Sambanova, Faiss DB

Real-time Twitter Sentiment Analysis

[GitHub Repo]

- Created a real-time system to predict sentiment from Twitter (X) posts.
- Tools Used: PySpark, Kafka, Docker, Django, MongoDB, ChartJS

Obstacle Detection & Alert System for the Visually Impaired

[GitHub Repo]

- A real-time obstacle detection and audio alert system designed to assist visually impaired individuals using deep learning and automation tools.
- Tools Used: Python, Flask, PyTorch, MobileNetV2, CNN, OpenCV, Node-RED, FFmpeg

Data Analysis & Machine Learning Desktop Application

[GitHub Repo]

- A Python desktop app built with CustomTkinter that enables users to analyze qualitative and quantitative datasets and apply multiple machine learning algorithms through an intuitive GUI.
- Tools Used: Python, CustomTkinter, Scikit-learn, Pandas, Matplotlib

Stock Market Analysis and Prediction using LSTM

[GitHub Repo]

- A deep learning project that applies LSTM neural networks to forecast stock prices based on historical time series data, offering visual insights and strong predictive performance.
- Tools Used: Python, PyTorch, NumPy, Matplotlib, Scikit-learn, Pandas

Medical Document Management Blockchain System

[GitHub Repo]

- A decentralized solution for secure medical document storage and access using Ethereum and IPFS. Empowers patients with document control, ensures transparency, and supports multi-platform access for doctors and admins. (Web & Desktop App)
- Tools Used: Solidity, Ethereum, IPFS, ReactJS, Python, Tkinter, Hardhat, MetaMask, Docker

Commerce Data Warehouse Builder and Analyzer

[GitHub Repo]

- A full ETL pipeline and data warehouse project for commerce product and supplier analytics with Power BI dashboards.
- Tools Used: Python, Pandas, SQLAlchemy, MySQL, Power BI

Web Development with Django

- Marketplace Website - Chat With LLM Locally - Social Media Website - Blog Website - Note App - Room Chat App - E-commerce App