Idriss Khattabi

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About me

AI Engineer / AI Developer with a Master's degree in AI & Data Science, skilled in Python, Machine and Deep Learning modeling, Predictive Modeling, Chatbot Development, AI agent development, and LLM integration. Passionate about AI-driven and data science projects, with hands-on experience in Django development and a proven ability to work collaboratively, solve problems, and learn quickly.

Education

M.S.T in Artificial Intelligence and Data Science Faculty of Sciences and Technologies	Oct 2023 – July 2025 Tangier, Morocco
BS in Computer Science and Mathematics Faculty multidisciplinary	Oct 2019 – July 2023 Larache, Morocco

Experience

AI / Data Engineer Intern, TNA Consulting – Casablanca

Feb 2025 - July 2025

- Designed and developed an AI SaaS platform to support financial institutions in interpreting and leveraging official central bank publications & documents across Africa.
- Engineered an automated and scalable **Data pipeline** for scraping & collecting documents from websites, cleaning, transforming & chunking documents, and loading into a Vector database.
- Built an intelligent **chatbot** using RAG Technique capable of answering user questions on African Central Bank documents.
- Used Tools: Python, Marker, Streamlit, Apach Airflow, ETL Pipeline, Flask, Ollama, Faiss, RAG, LLM, Selenium, Docker

Research Assistant, Faculty of Poly-disciplinary – Larache

March 2023 - June 2023

- Designed and implemented an optimization system to improve the consistency of pairwise comparison matrices in the AHP, leveraging GA and PSO, with Developing a Django web application that makes it easier to generate AHP matrices.
- Co-authored three research papers with Dr. Chakir Tajani, papers examples :
 - A Metaheuristic Approach to Improve Consistency of the Pairwise Matrix in AHP
 - Generating a Set of Consistent Pairwise Comparison Test Matrices in AHP using PSO

Soft Skills

Analytical thinking and problem-solving – Fast learning – Teamwork and collaboration – Agility and Adaptability – Curious for new technologies

Technical Skills

- Programming Languages: Python, Java, JavaScript, SQL, C, Solidity, Bash
- Machine / Deep Learning & NLP: Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, MLFlow, NLTK, spaCy
- Generative AI & LLMs: RAG, Prompt Engineering, Fine-Tuning, LangChain, LangGraph, LlamaIndex, n8n
- Web Development: HTML, CSS, Tailwind, JavaScript, React/Next JS, Django, Flask, FastAPI, Streamlit.
- Libraries & Tools: NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Selenium.
- Big Data & Distributed Systems: Apache Spark (PySpark), Apache Kafka, Apache Hadoop, Apache Airflow
- Databases: MySQL, SQL Server, PostgreSQL, MongoDB, Supabase, IPFS, FAISS, Chroma, Qdrant, Milvus.
- DevOps & Workflow Tools: Linux, Git/GitHub, Microsoft Azure, Docker, Power BI, Postman

Languages

Arabic: Native proficiency | English: Professional (B2) | French: Professional (B2)

Certifications

Associate Data Scientist in Python – DataCamp Microsoft Azure Fundamentals – DataCamp

Associate AI Engineer for Data Scientist – DataCamp Associate Data Engineer – DataCamp

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

Text To SQL Converter [GitHub Repo]

- An interactive tool to convert user text to SQL query using AI Agent, with getting data from SQL DB and Visualizing using Interface.
- Tools Used: Python, LangGraph Streamlit, 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

Age, Gender & Emotion Detection using CNN

[GitHub Repo]

- Detecting person Age, Gender, and Emotional state from facial images using CNN.
- Tools Used: Python, OpenCV, Tkinter, TensorFlow/Keras, CNN, NumPy, Pretrained Models

Fake News Detection [GitHub Repo]

- Fine-tuning BERT model to detect fake news articles, and Deploying the trained model via a Flask web app for real-time prediction.
- · Tools Used: Python, Flask, Pytorch, BERT

YouTube Transcript Summarizer Bot

[GitHub Repo]

- An AI-powered automation workflow that extracts transcripts from YouTube videos sent via a Telegram bot as .txt file with its summarize.
- Tools Used: n8n, Telegram Bot API, RapidAPI, JavaScript, Google Gemini

Web Development with Django

• Marketplace Website - Chat With LLM - Blog Website - Note App - Room Chat App - E-commerce App