

Idriss Khattabi

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About me

Master's graduate in AI & Data Science with strong skills in data analysis, data engineering, and full-stack development. Proficient in Python, SQL, and Django, with experience in building data pipelines, dashboards, and analytical solutions. Also familiar with machine learning and AI applications. Quick learner with Problem solver, and passionate about turning data into actionable insights.

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

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

Researcher Intern, 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 – Effective communication – Curious for new technologies

Technical Skills

- **Programming & Scripting:** Python, SQL, Java, JavaScript, C, Bash, Solidity, LaTeX
- **Data Analysis & Visualization:** NumPy, Pandas, Matplotlib, Seaborn, Power BI, Tableau
- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, MLflow
- **Natural Language Processing (NLP):** NLTK, spaCy, Hugging Face Transformers, GloVe, BERT, TesseractOCR
- **Generative AI & LLMs:** RAG, Prompt Engineering, Fine-tuning (LoRA, QLoRA), LangChain, LangGraph, LlamaIndex, OpenAI, Ollama, Hugging Face, n8n
- **Big Data & Distributed Systems:** Apache Spark (PySpark), Apache Kafka, Hadoop, Apache Airflow
- **Databases & Data Storage:** MySQL, SQL Server, PostgreSQL, MongoDB, Supabase, IPFS, Vector Databases (FAISS, Chroma, Qdrant, Milvus, Weaviate)
- **Data Pipelines & Automation:** ETL Processes, RESTful APIs, Postman, Selenium, BeautifulSoup, PyTest
- **Web Development:** HTML, CSS, Tailwind CSS, React.js, Next.js, Django, Flask, FastAPI, Streamlit
- **DevOps & Cloud:** Linux, Git/GitHub, Docker, Microsoft Azure

Languages

Arabic: Native proficiency

English: Professional (B2)

French: Professional (B2)

Certifications

Associate Data Scientist in Python – DataCamp

Associate Data Engineer – DataCamp

Associate AI Engineer for Data Scientists – DataCamp

Data Analyst – DataCamp

Microsoft Azure Fundamentals (AZ-900) – DataCamp

Projects

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

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

2D & 3D Retrieval Systems

[GitHub Repo]

- Built web applications for content-based image and 3D model retrieval using visual and shape descriptors.
- Tools Used: Python, Flask, MongoDB, (Angular / ExpressJS)

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, Tkinter / CustomTkinter, Scikit-learn, Pandas, Matplotlib

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

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

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

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