

Yasmine Boukraiem

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🐙 github.com/yasmine-png 🌐 Portfolio: <https://yasmine-boukraiem-portfolio.vercel.app/>

ABOUT ME

Master's student in Data Science, with a Bachelor's degree in Applied Mathematics. Passionate about Artificial Intelligence and Deep Learning, I have completed several AI projects combining machine learning, computer vision, and generative models. My goal is to design intelligent and innovative solutions that create genuine strategic value.

WORK EXPERIENCE

SIRYOS | SFBT

Generative Artificial Intelligence Developer (Summer Internship)

08/2025 – 09/2025
CENTRE URBAIN NORD,
ONSITE

- Developed a **RAG pipeline** to process French-language JSON datasets and deliver precise, context-aware responses. The system integrates **FAISS** and **BM25** for optimized hybrid retrieval, **Google Gemini** for response generation and indexing, and ensures robust management of data and conversational memory. The pipeline leverages **Python**, **NumPy**, **LangChain**, **Prompt Engineering**, **FAISS embeddings**, **BM25Retriever**, **Hybrid Search** with **EnsembleRetriever**, **JSON**, **ConversationBufferMemory**, **dotenv**, and **InMemoryDocstore** to achieve fast and accurate information processing.

NAVITRENDS

Generative Artificial Intelligence Developer (internship)

07/2025 – 08/2025
ARIANA, ONSITE

- Developed an **autonomous AI assistant** based on **RAG** and **Mistral 7B**, featuring a **FastAPI backend** and a **React frontend** deployed as an integrated widget. The project includes **vector data management** using **FAISS** and **Redis**, **fuzzy similarity** with **Fuzzy Wuzzy**, **Sentence-Transformers** and **Hugging Face** for embeddings, and **LLMs (LLAMA)** for response generation and comprehension.

ZHINEI INVESTISSEMENT

Artificial Intelligence Developer (Internship)

05/2025 – 07/2025
FRANCE , REMOTE

- Développement d'une **IA RAG** pour collecter et enrichir des leads depuis LinkedIn, stocker les données dans **Redis** pour un accès rapide, et permettre l'interrogation de chaque lead via un **chatbot intelligent**. Automatisation de la **qualification** et de l'**analyse des prospects** en exploitant **Python**, **LinkedIn API**, **Next.js**, **Tailwind CSS**, **TypeScript**, **LLMs**, **Prompt Engineering**, **LangChain**, **FAISS**, **RAG**, **Google Gemini API**, **NLP** et **Elasticsearch** pour un traitement rapide et précis des informations.

Zitouna Bank

Junior Data Scientist (Internship)

07/2023 – 08/2023
TUNIS, ONSITE

- Developed a **machine learning pipeline** for **bank fraud detection**, including **data preprocessing and cleaning**, **implementation of XGBoost and K-Means models**, as well as **analysis and visualization of results** to support decision-making. Utilized **Scikit-learn**, **Matplotlib**, and **data pipeline development** for efficient and interpretable outcomes.

PROJECTS

RAG AI Chatbot Platform

06/2025 – 08/2025

- Developed an **autonomous chatbot** for Navitrends using a **RAG assistant** based on **LLMs (Llama-CPP)**.
Technologies & Tools: Python, FAISS, RAG (Retrieval-Augmented Generation), Fuzzy Wuzzy, Redis, LLMs, LLAMA, Hugging Face Transformers, Sentence-Transformers, React, Radix UI
Project link : https://github.com/yasmine-png/chatbot_navitrends

AI-Based Tunisian Identity Extraction and Verification System

01/2025 – 05/2025

- Designed an advanced system for automatic extraction of key information from Tunisian ID cards (first name, last name, CIN, photo) using **YOLOv5** and **PaddleOCR** with orientation correction.
- Integrated **real-time facial verification** via **CompreFace** and **liveness detection** to ensure the user is a real human and prevent fraud attempts.
- Technologies & Tools:** Python, Django, Docker, Linux, PaddleOCR, YOLOv5, makesense.ai, Dlib, OpenCV, CompreFace API, MongoDB, Hadoop, TensorFlow, Scikit-learn, Computer Vision.
Project link : yasmine-png/identity_verification

EDUCATION

Master's in Data Science

Higher Institute of Computer Science and Mathematics of Monastir

09/2024 – Present

Bachelor's Degree in Applied Mathematics

Higher Institute of Computer Science and Mathematics of Monastir

09/2021 – 06/2024

SKILLS

RAG | LangChain | FAISS | TensorFlow | PyTorch | Scikit-learn | LLMs | Python | NumPy | Pandas | Matplotlib | Seaborn | OpenCV | YOLOv5 | Paddle OCR | computer vision | Dlib | Full Stack Development | Llama-CPP | Git | Docker | Linux | Redis | Elasticsearch | MongoDB | PostgreSQL | hadoop | spark | apache kafka | anglais | français

VOLUNTEERING

English and Mathematics Tutor

AIESEC OF TURKEY

- Taught **English and Mathematics** courses, enhancing students' skills in an **intercultural context**.

05/07/2024 –
01/09/2024
ADANA , TURKEY