Meriem Sakka *AI Engineer*

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○ github.com/sakkameriem01　　📍 Mahdia, Tunisia

PROFILE

AI Engineer with a background in Mechatronics. Passionate about developing AI-driven solutions to solve real-world challenges and drive innovation. Constantly curious, always coding.

EXPERIENCE

Data Scientist Intern, WEVIOO　　　　　　　　　　　　　　　　02.2024 – 08.2024 | Tunis, Tunisia
- Developed an end-to-end sentiment analysis platform that automatically collects customer feedback from bank Facebook pages using a **custom Flask backend** with **Selenium** web automation, handling dynamic content and pagination
- Deployed *TunBERT* — a BERT model pre-trained on Tunisian dialect — to accurately classify sentiment in informal, mixed Arabic/French text, addressing the challenges of local vernacular
- Transformed raw sentiment data into actionable insights through **interactive dashboards** featuring temporal trend analysis and keyword clustering
- Delivered real-time monitoring solution to track financial product perception

Robotics Engineer Intern, Enova Robotics　　　　　　　　　　　07.2023 – 08.2023 | Sousse, Tunisia
- Integrated dual LIDAR sensors on an autonomous robot for 360° environmental mapping
- Optimized trajectory planning via sensor fusion, enhancing navigation in dynamic environments

EDUCATION

National Engineering Diploma in Mechatronics,　　　　　　　　　09.2021 – 10.2024 | Ariana, Tunisia
National School of Engineering of Carthage

Pre-engineering Cycle in Mathematics-Physics,　　　　　　　　　09.2019 – 06.2021 | Monastir, Tunisia
Monastir Preparatory Engineering Institute

PROJECTS

Inquiero – Smart PDF Chatbot, Personal Project
- Developed an AI chatbot that lets users upload PDFs and ask questions in natural language, with answers sourced directly from document content.
- Engineered a **RAG (Retrieval-Augmented Generation)** pipeline:
  - Text extraction and chunking with PyPDF2 and LangChain.
  - Vector embeddings (Sentence Transformers) stored in ChromaDB for semantic search.
  - Response generation via **Mistral 3** with context from retrieved document passages
- Designed an intuitive UI and containerized the app with **Docker** for scalability.

Coverly.ai – AI Cover Letter Generator, Personal Project
- Built an AI platform that **automatically generates personalized cover letters** by analyzing CVs and job descriptions using **Google Gemini API**.
- Implemented **multilingual support** (EN/FR/AR) with RTL layout and **smart job-CV matching algorithms** (Flask backend).
- Implemented **user-centric features**: real-time editing, version history, and PDF export
- Designed a **responsive UI** (React + Tailwind CSS) with dark mode for optimal UX.

Classically Inspired Quantum Image Processing, Academic Project　　　　　　　　02.2023 – 05.2023
- Encoded classical images into quantum states using **Qiskit** and successfully retrieved them on **IBMQ Belem** via IBM Quantum Lab
- Explored quantum algorithms for image processing, implementing **quantum Fourier transforms** and **amplitude encoding** techniques

SKILLS

Programming: Python · SQL · JavaScript

AI/ML: Scikit-learn · TensorFlow · PyTorch · Transformers · LangChain · LoRA Fine-Tuning · Retrieval-Augmented Generation (RAG) · Vector DBs

Data: Pandas · NumPy · Matplotlib · Seaborn · Plotly　　　**Tools & Platforms:** Git · Docker

LANGUAGES

English — Fluent
　TOEIC Score: 945/990 (Advanced Level - C1)

French — Proficient

Arabic — Native/Bilingual