

ELHAKIOUI Fatima Ezzahra

DATA SCIENCE AND IOT STUDENT · GENERATIVE AI ENTHUSIAST

AVAILABLE FOR A 6-MONTH INTERNSHIP — STARTING JANUARY 2026

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Professional Experience

GENERATIVE AI Internship | 📍 4D

Rabat, Morocco

AI-POWERED DOCUMENTATION CHATBOT WITH GEMINI, FAISS, LANGCHAIN, AND HUGGING FACE

July 2025 - August 2025

- Built an AI chatbot to answer technical queries from Markdown-based documentation using Gemini and semantic search via FAISS.
- Leveraged LangChain and Hugging Face models to enable dynamic context-aware responses and improve natural language understanding.
- Designed a user-friendly Gradio interface and automated backend orchestration with n8n workflows.
- Enabled real-time retrieval-augmented generation for navigating Qodly's documentation with accurate section-level referencing.

• **Tools:** Gemini, FAISS, Gradio, n8n, Python, Langchain, Hugging Face.

Data Analysis Internship | 📍 Intelcia

Casablanca, Morocco

RECRUITMENT ANALYTICS & DASHBOARDING

july 2024 - August 2024

- Collected and modeled recruitment data to support strategic HR decision-making.
- Built a Power BI dashboard for real-time monitoring of Intelcia IT Solutions' hiring needs.
- Presented actionable insights to enhance recruitment performance and resource allocation.

• **Tools:** Excel, Power BI, Python (Pandas, Matplotlib).

Projects

CV2Interview — GenAI Agent for Interview Questioning and Career Guidance

- Developed a GenAI-powered assistant that interprets CVs and provides tailored interview questions and career advice.
- Engineered modular components for skill parsing, role matching, and guidance using Gemini and FastAPI.
- Delivered an interactive React + FastAPI web app with live feedback and document upload capability.

LangChain

FastAPI

Gemini

React

LLM

Fake News Detection Using NoSQL and Machine Learning

- Built a hybrid fake news detection pipeline using text classification and graph-based relationship analysis.
- Trained and evaluated models like SVM, LSTM, and BERT for credibility scoring.
- Used Neo4j for graph structure storage and visual exploration of news propagation patterns.

NLP

BERT

Neo4j

SVM

LSTM

Smart Waste Management System with IoT and Mobile App

- Developed an image-based classification system for waste type detection using Python and OpenCV.
- Built a mobile app for real-time waste collection tracking with Firebase backend.
- Enabled analytics dashboards for monitoring collection efficiency and waste patterns.

IoT

OpenCV

Python

Firebase

Mobile App

Skills

Languages

Python, SQL/NoSQL, C, C++, C#, Java, JavaScript, Kotlin, PHP.

Genrative AI

LangChain, LLM Agents, Prompt Engineering, API-based LLM Integration (OpenAI, Gemini), Ollama (local LLMs), Hugging Face, RAG, Multimodal AI.

Machine Learning & NLP

Scikit-learn, XGBoost, BERT, LSTM, spaCy, Gensim, VADER, topic modeling.

Data & Visualization

Pandas, NumPy, Seaborn, Power BI, Tableau, NoSQL (MongoDB, Neo4j), Graph Analytics.

Frameworks & Tools

FastAPI, React, Gradio, Docker, GitHub, Firebase, Tesseract OCR, FFmpeg.

Automation & Delivery

n8n, Kubernetes (YAML), PyMuPDF, Markdown parsing, Agile, Figma.

Education

Data Science and IOT Degree - IDSIT

Rabat, Morocco

NATIONAL SCHOOL OF COMPUTER SCIENCE AND SYSTEMS ANALYSIS (ENSIAS)

September 2023 - Present

Preparatory Classes for Grandes Écoles (CPGE) – MP

Marrakech, Morocco

CPGE IBN TIMIYA RANK : 1015/2472

September 2021 - june 2023

LANGUAGES

English Full professional proficiency.

French Bilingual.

Arabic Mother tongue.

EXTRACURRICULAR ACTIVITIES

- Head of Prospecting & Sponsoring** at Forum GENI Entreprises ENSIAS.
- Content Creator and Media Team Manager** at ENSIAS Sports Club