Mohamed Yassine Nefzi

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PROFESSIONAL EXPERIENCE

Generative AI Intern (6 months)   Paris, France
Wooclap   Feb 2025 - July 2025

- Built a **security chatbot** with LlamaIndex and hybrid retrieval for accurate Q&A.
- Deployed scalable app with Docker, Kubernetes, and AWS.
- Created a Streamlit UI for real-time Q&A and automated form handling.
- Created Airflow ETL pipelines to track user feedback and improve model accuracy

Python, RAG, LLM, Streamlit, LlamaIndex, RR Fusion, Cohere Rerank, AWS, Docker, Kubernetes, Git/Github.

Machine Learning Intern (3 months)   Tunis, Tunisia
Avidea   Jun 2024 - Aug 2024

- Extracted and processed data from PostgreSQL for model training.
- Performed an exploratory data analysis and visualized trends and anomalies.
- Used **unsupervised learning** techniques for fraud detection.

Python, PostgreSQL, EDA, Matplotlib, Seaborn, Unsupervised Learning, Isolation Forest, DBSCAN

Generative AI Engineer (Part-Time)   Tunis, Tunisia
Perro Solutions   Jan 2024 - Jun 2024

- Built an **AI companion** with LangChain and RAG to aid children with speech impediments.
- Designed FastAPI endpoints to integrate LLMs into backend services.
- Deployed the system using Docker and managed codebase via Git/GitHub.

RAG, LLM, Langchain, FastAPI, Docker, Git/Github

Computer Vision Intern (3 months)   Tunis, Tunisia
Technozor   Jun 2023 - Aug 2023

- Built a real-time computer vision system to **detect diseased plants**.
- Improved diagnostic accuracy with custom image processing pipelines.

Python, CNN, YOLO, TensorFlow, Matplotlib, Seaborn, Git/Github.

PROJECTS

Minerva – AI Assistant for Exploratory Data Analysis

- Built an AI assistant that automates EDA by detecting missing values, data types, distributions, and correlations.
- Enabled natural language follow-up questions for deeper, dataset-specific insights.

Python, LLM, Langchain, Matplotlib, Seaborn, Streamlit, Git/Github

SQL Agent Assistant (In development)

- Developing an AI assistant using LangGraph to interpret natural language and perform SQL queries dynamically.
- Enables seamless interaction with relational databases for query generation, execution, and result interpretation.

Python, LangChain, LangGraph, Docker, Git/Github.

SKILLS

- **Programming Languages**: Python, C/C++, Java, Javascript, Typescript.
- **Artificial Intelligence**: Langchain, LangGraph, LlamaIndex, RAG, PyTorch, TensorFlow.
- **Data**: SQL, PostgreSQL, MongoDB, NumPy, Pandas, Matplotlib, Seaborn.
- **Devops and Testing**: Git, Github, AWS (S3, Athena), Docker, Kubernetes, Helm, Airflow, Pytest, CI/CD
- **Frameworks/Tools**: FastAPI, Streamlit.

EDUCATION

National Institute of Applied Science and Technology (INSAT)   Tunis, Tunisia
Software Engineering Degree   2020 - 2025

LANGUAGES

Arabic: Native Language   **French**: Bilingual Proficiency   **English**: Bilingual Proficiency   **German**: A2