

SKANDER TLILI

Data Scientist | Backend Developer | Blogger@Medium

CONTACT

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ABOUT ME

Passionate and dedicated Data Scientist looking for an end-of-studies internship (**PFE**) of six months or more to complete my academic career.

PROFESSIONAL EXPERIENCE

● Prompt Engineering Intern

Business & AI | Megrine Business Center, Tunis

June 2024 - September 2024

- **Prompt Engineering**: Applied advanced techniques to optimize **LLM** outputs improving accuracy for **Generative AI**.
- **LLM Evaluation**: Tested and selected open-source LLMs assessing performance for complex **retrieval-augmented generation (RAG)** tasks.
- **RAG Methodologies**: Implemented retrieval-augmented generation approaches to enhance **Context Retrieval**.
- **Reasoning for LLM Agents**: Applied diverse reasoning strategies to enable multi-step **Decision Making** for LLM.
- **Q&A Agent Development**: Developed a Question Answering agent using RAG techniques to answer questions from PDFs.

● Software Engineering Intern

NearTeam | North Urban Center, Tunis

June 2022 - Aout 2022

- Gained proficiency in **Scrum Project Management** methodology, contributing to **Agile Team Workflows**.
- Completed comprehensive training in **Linux** environment management and **Shell Scripting**.
- Performed **Unit Testing**, **Integration Tests**, **Test Coverage**.
- **CI/CD integration** with **Git** and **Github Actions**.
- Developed a **CRUD API** using **FastAPI** and **PostgreSQL**.
- Implemented containerization of applications using **Docker**.

PROFESSIONAL PROJECTS

● Multi-Document Agent for Question Answering using RAG

Business & AI | Megrine Business Center, Tunis

June 2024 - September 2024

- Executed **Semantic Chunking** on multiple PDF documents.
- Developed data indexing with **ChromaDB** as **Vector DataBase** for efficient **Semantic Search**.
- Customized an advanced **Retriever** to improve accuracy in **Data Extraction**.
- Created a multi-document **ReAct Agent** utilizing Retrieval-Augmented Generation for multi-step question answering.

● Personal WebSite

ENSTAB | Borj Cedria, Tunis

January 2024 - March 2024

- Developed **DataBase** with **PostgreSQL** and deployed it on **Railway**.
- Developed **Back-End** using **Django** and deployed on **Vercel**.
- Developed the Front-End using **Bootstrap**.

ACADEMIC PROJECTS

● End of Year Projects (PFAs)

- PFA 1 : Developed a cryptocurrency price **Prediction Bot** using **LSTM** architecture.
- PFA 2 : Developed a movie **Recommendation System** using 2 different Models over **1 Million item Dataset** and deployment using **Flask** powerd API.

● Web Development Projects

- **CRUD API** with **JavaScript** and **MERN stack** (**MongoDB**, **Node.js**, **Express.js**).
- **REST API** with **Fast API** and **PostgreSQL**.
- **Web Scraping** and **Web Automation** with **BeautifulSoup** and **Selenium**.
- **ETL** for Data Analysis.

● Artificial intelligence Projects

- Development of **Geospatial Data Analysis** Model.
- **Time Series Forecasting**.
- **Chatbot AI assistant** with **LangChain** and **LlamIndex**.
- HandWritten **Neural Network** for **Text Classification**.
- **Sentiment Analysis** with **BERT** and **NLTK**.

● Practical Data Science On AWS Cloud Projects

- Developed and Deployed of a product review classifier on **AWS** with **AutoML**.
- Trained a text classifier using **Amazon SageMaker BlazingText**.
- Created Machine Learning pipelines with **BERT**.
- Optimized **Machine Learning** models and deployed **Human-in-the-Loop** pipelines.

EDUCATION

● IPEIEM : Preparatory Institute for Engineering Studies of El Manar

El Manar, Tunis

September 2018 - June 2021

- Preparatory Cycle Diploma.

● ENSTAB : National School of Advanced Science and Technology

Borj Cedria, Tunis

September 2021 - June 2025

- **Engineering Diploma** in Advanced Technologies : **Bac + 5**.