

SKANDER TLILI

Engineering Student in Data Science

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SUMMARY

Passionate and dedicated engineering student in Data Science seeking an end of studies internship from four to six months or more to complete my academic career.

EXPERIENCE

Prompt Engineering Intern

Jan 2023 - Present

Business & AI

Megrine Business Center, Tunis, Tunisia

- 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

Mar 2021 - Dec 2022

NearTeam

North Urban Center, Tunis, Tunisia

- Gained proficiency in Scrum Project Management methodology, contributing to Agile Team Workflows.
- Completed comprehensive training in Linux environment management and Shell Scripting.
- Got hands-on practice in Cloud computing and DevOps tools.
- Learned and practiced Git and Github.
- Developed a CRUD API using FastAPI and PostgreSQL for the DataBase.

PROJECTS

Multi-Document Agent for Question Answering using RAG

July 2024 - September 2024

Business & AI

Megrine Business Center, Tunis, Tunisia

- 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.

Key Words : GenAI | LLM | Transformers | Agent | ReAct | RAG | Ollama | LlamaIndex | Langchain | BERT | LLM Prompting

CRUD API for User management system

December 2023 - June 2024

NearTeam

North Urban Center, Tunis, Tunisia

- Created asynchronous CRUD endpoints.
- Handled Exceptions, HTTP headers, JSON responses and requests.
- Managed Logs for an effective Debugging.
- Performed Unit testing and Integration tests.
- Containerized the application with Docker.
- Designed PostgreSQL powered DataBase.

Key Words : FastAPI | ORM | SQLAlchemy | PyTest | Uvicorn | Docker | Git | Github | YAML

Personal Portfolio

February 2024 - April 2021

Enstab

Tunis, Tunisia

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

Key Words : Django | Web Development | Back-End | PostgreSQL | Python | Railway | Vercel | CI/CD Integration

January 2024 - February 2024

Tunis, Tunisia

- Key Words :** MLOps | Apache Beam | TFX | TFDV | EDA | TFT | Scikit Learn | ML MetaData

June 2023 - Aout 2023

Tunis, Tunisia

- Key Words :** AutoML | AWS | AWS Sagemaker | EDA | NLTK | Pandas | Amazon S3 | Data Lake

January 2023 - Mai 2023

Tunis, Tunisia

- Key Words :** MLOps | Flask | Web Server | API | EDA | Deep Learning | Neural Networks | Linear Algebra | Regression

- **Data Analysis** : Time Series Forecasting, Geospatial Data Analysis, Exploratory Data Analysis.
- **Generative AI** : Prompt Engineering, Conversational AI.
- **Data Engineering** : ETL, Web Scraping, Web Automation, OLTP, REST APIs, RDBMS, NoSQL.
- **Computer Science** : OOP, Software testing, DevOps, Cloud Computing, Asynchronous programming.
- **Machine Learning** : Supervised learning, Semi-Supervised Learning, Unsupervised learning, Transfer Learning.
- **Statistics** : Inferential statistics, stochastic processes, A/B testing, Markov Chains.
- **Programming Languages** : Python, Javascript, HTML, SQL, YAML.
- **Cloud Services** : AWS, Vercel, Railway, Atlas, GCP.
- **Frameworks and Libraries** : TensorFlow, Keras, Pytorch, Pandas, Numpy, SKlearn, Matplotlib, Seaborn, Django, FastAPI, Selenium, LangChain, OpenAI, Express.js, SQLite, BigQuery, CrewAI, LlamaIndex, Pydantic.
- **Modern Languages** : Arab, French, English.

Bachelor of Engineering in Advanced Technologies - BAC + 5

Sep 2021 - June 2025

National School of Sciences and Advanced technologies - ENSTAB

Borj Cedria, Tunisia

Prepratory Studies for Engineering in Physics and Technology - BAC + 2

September 2018 - July 2021

Preparatory Institute for Engineering Studies of El Manar - IPEIEM

El Manar, Tunis, Tunisia