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
Business & AI

June 2024 - Spetember 2024
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
NearTeam

June 2022 - Aout 2022
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
Business & AI

July 2024 - September 2024
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
NearTeam

July 2022 - June 2024
North Urban Center, Tunis, Tunisia

- Created asynchronous CRUD endpoints.
- Handeled 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 PostgeSQL powered DataBase.

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

Personal Portfolio
Enstab

February 2024 - April 2024
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 | PostgeSQL | Python | Railway | Vercel | CI/CD Integration

Data Processing Pipeline for Production Machine Learning

Enstab

January 2024 - February 2024

Tunis, Tunisia

- Performed Feature Selection using Correlation matrix and univariate statistical tests.
- Streamlined Data Validation using schema inferred based on statistcs from the Dataset.
- Concieved Feature engineering component using TensorFlow Transform.
- Used SQLite database to store pipeline metadata.
- Implemented debgging using ML Metadata to get more control over the Data flow of the pipeline.
- Running the Pipeline using Apache Beam.

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

Customer Product Reviews Classifier on AWS

Coursera

June 2023 - Aout 2023

Tunis, Tunisia

- Utilized AWS Glue and Amazon Athena to ingest and transform customer product review data.
- Conducted data analysis using AWS Data Wrangler to visualize key insights from the reviews.
- Performed a Statistical bias detection on the dataset, generating reports to guide feature engineering and mitigate societal biases.
- Leveraged Amazon Sagemaker Autopilot to train a BERT-based NLP model for sentiment classification.
- Deployed the model on REST Endpoint.

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

Movie Recommender System

Enstab

January 2023 - May 2023

Tunis, Tunisia

- Developed the model with two algorithms : Collaborative filtering and Content based filtering.
- Trained the The model on dataset with over 1 million item.
- Serve the Model using TensorFlow Serving and Docker.
- Deployed the model on Flask Powered App.

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

SKILLS

- **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 Leraning.
- **Statistics** : Inferential statistics, stochastic processes, A/B testing, Marcov 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.

EDUCATION

Engineering Diploma in Advanced Technologies - BAC + 5

National School of Sciences and Advanced technologies - ENSTAB

Sep 2021 - June 2025

Borj Cedria, Tunisia

Prepratory Studies for Engineering in Physics and Technology

Preparatory Institute for Engineering Studies of El Manar - IPEIEM

September 2018 - July 2021

El Manar, Tunis, Tunisia