AI Engineer / Data Scientist

RASLEN GUESMI

(216) 54930176 | guesmiraslen2@gmail.com
Date of Birth：01/07/1998, Nabeul
GITHUB , **LINKEDIN**
Address : Hammamet,8056 , Tunisia

Professionel Summary

Results-oriented Data Scientist with over 1 year of experience in machine learning, data engineering, and analytics. Skilled in developing end-to-end solutions for complex problems, including AI applications, dashboards, and predictive modeling.

Skills

- **Programming Languages:** Python, R, JavaScript
- **DataBases:** SQL(MySQL, PostgreSQL), Mongo db
- **Data Visualization**: Excel, Tableau,Power BI
- **Machine Learning:** scikit-learn, TensorFlow, Keras, Pytorch, (Classification, Clustering, Regression, Time Series), CNN, LSTM
- **MLOps:** Experience with Vertex AI, Hugging Face, MLFLOW, and CI/CD for ML models.

- **LLMs & NLP:** Fine-tuning, prompt engineering, retrieval-augmented generation (RAG), text classification, and sentiment analysis.
- **Web Scraping:** Scrapy, Selenium, BS4
- **Software Engineering:** Strong Python (OOP), FastAPI, Flask, Docker, and Kubernetes (K8s) for scalable ML solutions.

Work Experience

DATA SCIENCE ENGINEER – 4InaTechnology: Energy Sector **–** Manouba, TN   February 2024 - August 2024 (7 Months)

- Preprocessing data (data cleaning, feature engineering) for energy management systems.
- Utilizing STM32 and Raspberry Pi for data collection.
- Developing time series models (LSTM, ARIMA, Regression) to analyze and forecast energy consumption.
- Designing and implementing chatbots for real-time interaction in energy management systems.
- Developing server-side applications using Flask and Flutter applications for energy management.
- Developed AI models (CNN) for classification and predictions tasks and image classification.
- **Technologies Used:** Pandas, NumPy, scikit-learn, TensorFlow, Keras, Matplotlib, Jupyter Notebook, Python, Tkinter, STM32, Raspberry Pi, PySpark, Flask, Flutter.

MACHINE LEARNING INTERN – INNOV-SYS – Tunis, TN   February 2023 - August 2023 (7 Months)

- Developed a fitness e-coaching app using Kivy and integrated MediaPipe for pose estimation.
- Applied deep learning (LSTM) and machine learning models to optimize user experience.

Projects

RESUME SCREENING WEB APP – University Project   October 2022

- Developed a Python-based web app with Flask for resume categorization using NLTK and scikit-learn for NLP tasks (RandomForest, LogisticRegression). Implemented in Jupyter Notebook.

CUSTOMER CHURN PREDICTION - Personal Project   June 2024

- Developed a customer churn prediction app for telecom using FastAPI for the backend and JavaScript for the frontend. Built ML models with SVM and Random Forest, achieving 90% accuracy in predicting customer churn.

SENTIMENT ANALYSIS OF SOCIAL MEDIA POSTS – Personal Project   September 2024

- Developed a model to analyze social media posts and classify sentiment (positive, negative, neutral) and toxicity (toxic or non-toxic). Leveraged pre-trained NLP models for sentiment analysis and toxicity detection. Used Selenium for data scraping from Facebook and FastAPI for the backend.

AI-DRIVEN FOOTBALL PLAYER PERFORMANCE ANALYSIS - Personal Project   November 2024

- Developed an AI-based analysis system to evaluate football players' performances using match data. Built a knowledge retrieval system using Pinecone and LLMs to compare players based on metrics like xG, pass accuracy, and successful dribbles. Integrated FastAPI for real-time queries and optimized model serving with Kubernetes.

SCALABLE RAG PIPELINE FOR PDF QUESTION ANSWERING -   – Personal Project   January 2024

- Developed a scalable RAG pipeline using LLMs (FLAN-T5) and SentenceTransformer embeddings to answer questions from a PDF manual. Integrated Pinecone for efficient vector search and optimized batch processing. Managed large files with Git LFS for performance enhancemen.

Education

- **BACHELOR OF APPLIED MATHEMATICS** – Faculty of sciences of bizerte – Tunisia   September 2018 - June 2021

- **MASTER OF DATA SCIENCE** –Faculty of sciences of bizerte – Tunisia   September 2021 - November 2023

Certifications

INTRODUCTION OF AI – UNIVERSITY OF HELSINKI   **TENSORFLOW FOR BEGINNERS – SKILLUP**

INTRODUCTION TO PROMPT ENGINEERING FOR GENERATIVE AI – LINKEDIN   **PWC SWITZERLAND - POWER BI JOB SIMULATION – FORAGE**

INTRODUCTION TO MLFLOW – DATACAMP   **WEB SCRAPING IN PYTHON – DATACAMP**

Languages

Arabic : Mother Tongue   English : Fluent   French : Fluent   German : Intermediate