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Amine MEKKI

AI Engineer

github.com/AmineMekki01
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Skills

Programming Languages	:	Python, JavaScript, Go, R, SQL
Machine Learning Frameworks	:	Scikit-Learn, TensorFlow, PyTorch
Data Processing and Management	:	Pandas, Polars, Dask, NumPy, Spark, Snowflake, Apache Kafka, Apache Airflow
Machine Learning Tools	:	LangChain, DVC, MLflow, Hugging Face, LlamaIndex
Web Development	:	FRONTEND: JavaScript, React, Tailwind CSS — BACKEND: FastApi/Flask, Go
Deployment and DevOps	:	Docker, Kubernetes, Git, GitHub Actions
Cloud Platforms	:	AWS
Visualization	:	Matplotlib, Seaborn, Plotly
Databases	:	PostgreSQL, MySQL, MongoDB, Redis, Vector Databases

Experience

Data Scientist **Sept 2023 — Present**
Sanofi *Lyon, France*
- Working on Automating the generation of quality reports using LLMs.

MLOps Engineer **Jan 2024 — Mar 2024**
IMT Mines Alès *Alès, France*
- Developed and implemented an MLOps pipeline to automate end-to-end processes for model training, evaluation, and deployment.
- Implemented data drift and model drift monitoring solutions, ensuring long-term model stability and performance.
- Utilized AWS services, leading to cost-effective and scalable solutions for model training and deployment.

Data Scientist **Apr 2023 — Sept 2023**
Vaisala *Saclay, France*
- Conducted in-depth market research and developed ML-based calibration methods, improving product focus and measurements.
- Helped in creating a solutions for aerosol classification and wind speed forecasting, enhancing product utility and market competitiveness.

Machine Learning Engineer **Jan 2023 — April 2023**
EUROMOV DHM *Montpellier, France*
- Analyze functional near-infrared spectroscopy (fNIRS) signals from patients undergoing transcranial direct current stimulation (tDCS).
- Derived unique biomarkers to establish correlations between the electric dosage and fNIRS responses. Enabling dosage modulation based on patient responses, contributing to a futur personalized treatment strategies for cognitive function restoration in patients with brain damage.

Projects

Credit Card Fraud Detection System

Technologies Used: Python, FastApi, Scikit-learn, Kafka, Cassandra, Docker
- Built a real-time fraud detection system using Python, FastAPI, Cassandra, and Kafka, focusing on identifying fraudulent transactions efficiently.

Comprehensive Healthcare Management Platform

Technologies Used: React, Golang, Python, PyTorch, MicroServices, FastAPI, Docker, Azure
- Created an integrated healthcare management platform (Web App) using React and Golang, which offers users the ability to book appointments with doctors.
- Implemented a symptom-based intelligent doctor search feature using LLM.
- Developed a retrieval-augmented generation (RAG) system for doctors, enabling them to efficiently search for valuable patient information.
- Currently investigating methods to enhance medical image descriptions using VLLMs, aiming to improve diagnostic precision and time.

Education

Engineering Degree in Computer Science, AI and Data Science, *IMT Mines Alès* Aug 2021 - 2024
- Relevant Coursework: Advanced Machine Learning, Advanced Deep Learning, Data Structures and Algorithms, Software Engineering, Data Mining, Healthcare Analytics, Product/Project Management

Master of Biomedical Engineering, *University Of Montpellier* Aug 2021 - Aug 2024
- Relevant Coursework: Biomedical Signal Data Processing, Medical Image Analysis, Medical Devices, Nuclear Physics, Statistical Learning for Biomedical Data