MALEK AJMI

Python Developer

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EXPERIENCE

AI Product Developer

Metavoria

📅 Jan 2025 – April 2025   📍 Tunis

- Built the system and designed an AI assistant for restaurant order management, integrating a **PostgreSQL database** with **PgVector**.
- Integrated Anthropic model for **natural language processing** and generated semantic embeddings, improving intent classification accuracy by 50%.
- **Optimized** Performance of conversational flows using **LangGraph** and **LangChain**, reducing response time by 40% and increasing order process efficiency by 30%.

Data scientist Intern

Kripton

📅 Feb 2024 – Jul 2024   📍 Tunis

- Annotated over 400 medical document images using CVAT.AI and preprocessed the data with advanced techniques.
- Localized words in documents with **Computer Vision** Model **YOLOv8**, achieving 88% accuracy.
- Accelerated the annotation process by 50% by integrating **OpenAI Whisper** into a custom web interface.
- **Fine-tuned** the Microsoft/Trocr-base model for handwritten text recognition, achieving a Character Error Rate (CER) of 0.29.
- Developed and deployed a complete **Proof of Concept** (PoC) using Django and **generative AI**, demonstrating end-to-end system feasibility.
- Applied **Scrum methodology** to structure the project and enhance **team collaboration**.

PROJECTS

AI-Driven Investment Opportunity Analyzer

ODDO BHF / Esprit School of Business

📅 Oct 2023 - Jan 2024   📍 Tunis

- Collected over 1,000 investment-related articles in 5 languages using Selenium and **BeautifulSoup** and built a multilingual dataset for opportunity analysis.
- Built a scalable **MongoDB** database that enabled efficient storage and retrieval of scraped content across languages.
- Leveraged **OpenAI API** with custom **prompt engineering** gaining 80% efficiency to generate concise summaries and extract sentiment, streamlined analysis and enhanced decision relevance.
- Trained classification **Machine Learning** models to assess investment potential and achieved 83% accuracy in predicting viable opportunities.
- Deployed the solution with **Django** and **Chart.js** and delivered real-time, interactive dashboards to support strategic decision-making.

SUMMARY

'Python Developer with strong Python skills and hands-on experience in document parsing using OCR, NLP and LLMs. Built end-to-end AI pipelines deployed with Django using HTML, CSS and Js for Front ENd. Familiar with LangChain, RAG architectures, Docker, and databases. Eager to contribute to scalable ML systems in a fast-paced, cloud-native environment.'
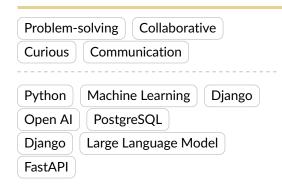
CERTIFICATES

🏆 **Introduction to Deep Learning & Neural Networks with Keras | Coursera**

🏆 **Talend Data Integration Certification Preparation training | Coursera**

SKILLS

Problem-solving · Collaborative · Curious · Communication

Python · Machine Learning · Django · Open AI · PostgreSQL · Django · Large Language Model · FastAPI

LANGUAGES

- **English :** Professional
- **French :** Professional
- **Arabic :** Native

EDUCATION

Masters in Business Analytics

Esprit School of Business

📅 Sept 2022 – July 2024

Bachelor in Finance

Higher Institut of Management Sousse

📅 Sept 2017 – June 2020