

MALEK AJMI

Data Ops Analyst

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Tunisia

malek-ajmi

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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%.

Tools: PostgreSQL, PgVector, ChatAnthropic, LangGraph, LangChain, NLP, Flask

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.

Tools: YOLOv8, Trocr, OpenAI Whisper, Django, generative AI, Computer Vision, Scrum

PROJECTS

AI-Driven Investment Opportunity Analyzer

Esprit School of Business

Oct 2023 - Déc 2023

Tunis

- Built a Scalable MongoDB database that enabled efficient storage and retrieval for more than 1,000 scrapped investment-related articles via BeautifulSoup and Selenium.
- Leveraged OpenAI API with custom 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 interactive dashboards to support strategic decisionmaking.

Tools: BeautifulSoup, Selenium, MongoDB, OpenAI, Machine Learning, Django, Chart.js, HTML, CSS

SUMMARY

'Detail-oriented and analytical by nature, with a passion for transforming data into meaningful insights that drive efficiency and clarity. Enjoy solving complex problems, improving processes, and ensuring Financial document processing across systems. Thrive in dynamic environments, where collaboration, curiosity, and a structured mindset lead to impactful outcomes. Constantly seeking to learn, adapt, and contribute to smarter decision-making through reliable data.'

CERTIFICATES



Introduction to Deep Learning & Neural Networks with Keras | Coursera



Talend Data Integration Certification Preparation training | Coursera

SKILLS

Problem-solving Detail orientation

Curious Communication

Analytical Thinking Collaboration

Python Financial analysis ETL

SQL AI modeling Data operations

Financial document processing Data analysis

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