

# Mourad Salah

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# IA Engineering

## Education

<b>ENETCOM: National School of Electronics and Telecommunications of Sfax, Sfax</b>	September 2023 - Present
Engineering Degree in Data Engineering And Decision Support System	Sfax, Tunisia
<b>IPEIS: Preparatory Institute for Engineering Studies of Sfax</b>	2021 - 2023
National Exam of Enterance to Engineering Schools, Technology - Physics	Sfax, Tunisia

## Experience

<b>Pixemantic, Tunis</b>	June 2025 - August 2025
IA Intern	Tunis, Tunisia
<ul style="list-style-type: none"><li>Damage detection: Upload a car image and use YOLOv8 to detect and label damaged areas..</li><li>Document analysis: Process uploaded documents using OCR and NLP for text extraction and correction.</li><li>Client response: Combine image, document, and form results to generate clear answers using a RAG-based LLM.</li><li>Tools: YOLOv8, OCR, OpenAI, Pinecone.</li></ul>	
<b>REGIM LAB, Sfax</b>	July 2023 - August 2023
Mobile Development Intern	Sfax, Tunisia
<ul style="list-style-type: none"><li>Developed a web and mobile application for managing the Nephro Doppler sector, enabling super administrators, administrators, and doctors to efficiently centralize and manage medical records.</li><li>Designed and implemented features to facilitate patient data tracking, record organization, and streamlined access to medical information across user roles.</li><li>Tools: Flutter, Firebase, Google Cloud.</li></ul>	

## Projects

### Autonomous Traders – Multi-Agent Equity Trading Simulation

- Developed a multi-agent equity trading simulator in Python with autonomous investors inspired by real-world trading strategies, using MCP servers for communication, memory, and tracing to visualize market interactions.
- Tools: Python, FastAPI, AsyncIO, OpenAI Agents SDK, MCP Servers, SQLite, Tracing Push Notification APIs.

### AI-Driven Consumer Insights for Retail Optimization

- Built an AI model using TensorFlow and OpenCV for age and gender detection from retail images, and designed an interactive Streamlit dashboard providing real-time demographic insights and visual analytics.
- Tools: Transfer Learning, TensorFlow, OpenCV, Streamlit.

### Credit Card Fraud Detection

- Implemented machine learning models with Scikit-learn and XGBoost to identify fraudulent transactions using SMOTE for data balancing, and deployed the system via Docker on Azure with a real-time monitoring dashboard.
- Tools: Python, Scikit-learn, XGBoost, Azure, Docker.

### Football Match Prediction Model (MLOps Pipeline)

- Developed an end-to-end MLOps pipeline using XGBoost regression to predict key football match statistics such as total goals, cards, and corners. Integrated automated data processing, model training, and FastAPI deployment for real-time match predictions..
- Tools: Python, XGBoost, FastAPI, Docker, DVC, GitHub Actions, Pandas, Scikit-learn

## Technical Skills

**Programming Languages:** Python, R, Java, Scala, JavaScript

**DevOps & MLOps:** Docker, GitHub, CI/CD, Kubernetes, MLflow, DVC

**ETL/ELT & Visualization:** SQL, Power BI, Talend, Kibana

**Databases:** MySQL, PostgreSQL, MongoDB

**Machine Learning & Deep Learning:** TensorFlow, PyTorch, Scikit learn, YOLOv8, LLM VLM, OCR,CNN

**Certifications:** Microsoft Azure AI Fundamentals (02/10/2023), Microsoft Azure Data Fundamentals (01/12/2023), AWS Certified Cloud Practitioner (CLF-C02) (01/09/2025)

**Languages:** French (Professional), English (Professional)

**Extracurricular Activities:** Active Member of NATEG – ENET'Com