

# Mourad Salah

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# Cloud Data 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

### Real-time Flight Tracking Application (Final Year Project)

- Designed and implemented a real-time flight tracking system using a distributed data pipeline (Kafka, Spark, Airflow) with Elasticsearch for storage, Kibana for visualization, and Docker for containerized deployment.
- Tools: Apache Kafka, Apache Spark Structured Streaming, Apache Airflow, Elasticsearch, Kibana, Docker

### Real-Time Data Processing and Analytics Pipeline (AWS)

- Developed a real-time data analytics solution on AWS to enable seamless data collection, processing, and visualization. Focused on improving data accessibility, automation, and decision-making through efficient cloud-based workflows and interactive dashboards.
- Tools: AWS S3, AWS Lambda, AWS Glue, Amazon Kinesis, Amazon Athena, Amazon QuickSight, Amazon CloudWatch, Data Lake concepts, serverless ETL, Data Visualization.

### 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

### YouTube Data Analysis Pipeline

- Developed a data pipeline to extract, transform, and load (ETL) YouTube channel data using a star schema approach.
- Tools : Talend Open Studio, ExportComments, SQL, MySQL, Data Lake concepts, Star Schema, ETL

## 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

**Big Data & Cloud:** AWS, Azure, Databricks, Spark, Kafka, Airflow, Elasticsearch

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

**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