Moatez Ouaz

2nd Year Student – Master in Data Science

Tunisia
+216 29 059 272
mo3tezoz239@gmail.com
in moatez-ouaz

Summary

Curious and motivated Master's student in Data Science with solid software engineering foundations. Skilled in backend & frontend development, cloud technologies, and data science tools. Eager to contribute to innovative projects combining AI, voice technology, and real-world problem-solving.

Education

09/2024 – Present
Master's in Data Science, *Faculty of Sciences of Monastir*

09/2021 – 06/2024
Bachelor's Degree in Computer Science – Software Engineering, *Faculty of Sciences of Monastir*

09/2020 – 07/2021
Baccalaureate Diploma in Sciences, *High School Mahmoud Messaadi EL Fahes*

Experience

02/2024 – 05/2024
Migration to a Graph Database & AI Model Development, *Tunisie Telecom*, Tunisia
Tunisie Telecom is the incumbent telecom operator in Tunisia.
- Migrated PostgreSQL database to Neo4j.
- Performed mapping operations using DBeaver.
- Developed an AI model to extract data from vehicle registration certificates.

07/2023 – 09/2023
Full Stack Developer, *Tunisia and Emirates Bank (BTE)*, Tunisia
The IT department manages and maintains all banking information systems.
- Built internal banking tools from scratch.
- Provided IT support and maintained risk/security systems.
- Collaborated in a team of 3 developers.

Projects

09/2025 – 11/2025
Multimodal Stress Detection from Voice and Text, *Faculty of Sciences of Monastir*
- Combined audio (RAVDESS, TESS) and text features for stress classification.
- Audio processing: librosa, feature extraction (MFCC, chroma, mel).
- Speech-to-Text: Whisper, followed by NLP (TF-IDF, keyword detection).
- Multimodal fusion model built with TensorFlow/Keras.

04/2025 – Present
Voice Assistant for a Dental Clinic (Twilio), *Freelance – Remote, France*
- Developed a smart voice assistant capable of handling calls and understanding patient needs.
- Appointment management, SMS/email notifications and reminders.
- Real-time Speech-to-Text (Deepgram / Whisper).
- Voice bots, NLP with Dialogflow, calendar integration.
- Backend in Python; APIs (Google, Twilio); SQLite/PostgreSQL.

Skills

Backend	SQL, PostgreSQL, SQLite, MongoDB, Spring Boot, Flask,
Frontend	HTML, CSS, JavaScript, Angular, WordPress
Programming	Java, C#, C++, C, Python, Cypher
AI/ML	TensorFlow, Keras, scikit-learn, NLP (NLTK, Transformers), Speech Processing (librosa, Whisper)
DevOps	Docker, APIs (REST, Google, Twilio)
ETL Pipelines	AWS Glue, S3
Data Modeling	Data Lakes, Graph Modeling (Neo4j), Lake Architecture
Data Viz & UI	Streamlit, Dialogflow
Database Tools	DBeaver, Neo4j

Training / Certifications

AWS Academy Graduate	**Data Engineering** – Amazon Web Services 🔗
AWS Academy Graduate	**Cloud Foundations** – Amazon Web Services 🔗
Cisco	Linux 1 & 2

Languages

Arabic: Native   •   English: Proficient   •   French: Advanced