Oubeid Allah JABALLAH

AI Engineer / Data Scientist

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ABOUT ME

Computer engineer specialized in **Artificial Intelligence** with over **a year of hands-on industry experience** in computer vision, predictive maintenance, and geospatial data processing. Autonomous, curious, and impact-driven, I aim to contribute to innovative projects as an **AI Engineer** or **Data Scientist**.

SKILLS

Languages & Tools:
Python, C++, Java, SQL, MySQL, Git, GDAL, Azure, AWS, Pytest, Docker

Libraries & Frameworks:
PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Anaconda, LangChain

AI & Data Science:
Machine Learning, Deep Learning, LLM, CNN, NLP, Data Visualization, Data Collection & Labeling, Web Scraping.

Other:
Problem Solving, Computer Vision, Geospatial Data Processing

EDUCATION

Engineering Degree in Computer Science, Networks, and Cybersecurity
Grenoble INP - Esisar
Valence, France
2023 – 2025

Engineering Degree in Computer Science
National Engineering School of Sousse
Sousse, Tunisia
2021 – 2023

Preparatory Engineering Program
Preparatory Institute for Engineering Studies of Monastir
Monastir, Tunisia
2019 – 2021

Langues

- **French (bilingual)**
- **Arabic (native)**
- **English (TOEIC B2)**

EXPERIENCE

AI Engineer (Final Year Internship)
Dassault Systèmes
Cesson-Sévigné, France   02/2025 – 07/2025
- Developed an **AI pipeline** to automatically generate **virtual twins** of cities from **satellite imagery** (**Shapely**, **GeoPandas**, **PyTorch**, **Git, PyTest, Anaconda**).
- Trained a **semantic segmentation** model (**U-Net + ResNet**) achieving **92% IoU** on the test set and fine-tuned a **SAM2 segmentation model.**
- Optimized a **height estimation model** and trained a **roof classification** model using **EfficientNet** and **Scikit-learn.**

Machine Learning Engineer
Markem-Imaje
Valence, France   01/2024 – 06/2024
- Built a pipeline to **manipulate**, **visualize**, and **structure** large **time-series databases** from **industrial printer logs** (**PySpark**, **Pytest**, **Plotly Express**, **Anaconda**), automating repetitive tasks
- Implemented **predictive maintenance models** (**XGBoost**, **Autoencoder**) using **Scikit-learn** and **TensorFlow.**

Data Scientist (Apprenticeship)
NextAV
Sousse, Tunisia   01/2023 – 06/2023
- Strengthened knowledge in **machine learning** and **deep learning**, especially **CNNs.**
- Developed a **web app** (**Flask**, **MongoDB**) integrating **AI models** for **crop and fertilizer recommendation**, **plant disease diagnosis**, and **treatment suggestions.**

Data Scientist (Summer Internship)
TechInventors TN
Sousse, Tunisia   06/2022 – 07/2022
- Trained and deployed a **YOLOv5 model** on a **custom dataset**, locally and on **Raspberry Pi 4.**

PROJETS

Geographical Entity Recognition (LMR)
 Built a model for **recognizing geographic mentions** using **LLMs** (**BERT**, **SpaCy**, etc.) and **geolocation techniques** for **automatic toponym extraction** from text.

Interview Preparation Platform
 Web application helping users practice **oral interviews** through **auto-generated questions** and **audio/video analysis** of responses via **emotion detection**. Built with **.NET**, **Flask**, **MSSQL**, **ChatGPT API**, **GPT**.

Smart Enterprise Document Extraction
 Designed an **AI platform** based on **orchestrated LLMs** using **LangChain** and deployed on **Azure** to **analyze** and **extract key information** from corporate documents.