Abd Rahim Mojbani *Applied AI Student*

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○ Abd-Rahim1

PROFILE

Final-year Applied Artificial Intelligence student at Pristini School of AI, specializing in computer vision, deep learning, and data-driven problem-solving. Passionate about applying AI techniques to real-world challenges and contributing to innovative projects in a collaborative, international environment.

PROFESSIONAL EXPERIENCE

07/2025 – 08/2025
Ksar Hellal, Monastir

Data Science Intern - Deep Learning Pipeline for Trouser Keypoint Detection
Sartex Group ⧉
- Engineered a preprocessing pipeline for the **DeepFashion2 dataset**, cleaning annotations and normalizing **10K+** trouser images to improve dataset quality & model performance.
- Fine-tuned a **Detectron2 Keypoint R-CNN** model using transfer learning, achieving a high-precision keypoint detection system for automated garment analysis.
- Developed an intuitive **Tkinter-based GUI tool** to visualize model predictions and correct annotation inaccuracies, significantly streamlining the manual review process.

06/2024 – 07/2024
Ksar Hellal, Monastir

IT Intern – Network & Systems Support
Sartex Group
- Provided system and network support, resolving technical issues and ensuring smooth daily operations.

PROJECTS

10/2025 – Present

Vision-Based Car Damage Detection System ⧉
- Architected a **multi-model deep learning system** for **car damage detection**, **classification**, and **segmentation** using **YOLO** and **Detectron2**.
- Applied **MLOps** principles with **Git**, **DVC**, and **CI/CD pipelines** for data versioning, experiment tracking, and automated model deployment.
- Currently designing a **mobile application** that enables users to capture car images and obtain real-time damage localization and severity classification.

03/2025 – 05/2025

Earthquake Magnitude Prediction Web Application ⧉
- Transformed raw **USGS data** via preprocessing and feature engineering, enabling the training of an accurate Random Forest prediction model.
- Built a **full-stack web application** (HTML, CSS, JavaScript) with an **API backend** to serve model predictions and provide interactive data visualizations for end-users.

EDUCATION

09/2023 – Present
Sousse, Tunisia

Bachelor's Degree in Software Engineering and Information Systems
Pristini School of AI
- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, Computer Vision, Data Mining, Data Visualization.

2022 – 2023
Monestir, Tunisia

Baccalaureate in Technical Sciences
Sayada High School
Obtained with High Honors

SKILLS

AI & Machine Learning
CNNs, RNNs,, SVM, Transfer Learning, LLMs, NLP.

Programming & Web Development
Python, Java, C, SQL, HTML, CSS, JavaScript

Libraries & Frameworks
TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, NumPy, Detectron2, Flask, FastAPI

Tools & Platforms
Git, VS Code, Jupyter Notebook, Docker, Power BI, DVC

CERTIFICATES

Image Segmentation, Filtering, and Region Analysis ⧉
Coursera (MathWorks) | Completed: 2025

Building LLM Applications With Prompt Engineering ⧉
NVIDIA (AI Workshop)| Completed: 2025

LANGUAGES

Arabic
Arabic (Native)

English
English (Intermediate)

French
French (Fluent)