Abd Rahim Mojbani *Applied AI Student*

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🔗 Abd-Rahim1

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🪪 PROFILE

Final-year Applied Artificial Intelligence student at Pristini School of AI with strong skills in computer vision, deep learning, and data-driven innovation. Highly motivated to contribute to collaborative **Erasmus**+ projects and develop practical AI solutions within an international research and professional environment.

💼 PROFESSIONAL EXPERIENCE

07/2025 – 08/2025
Ksar Hellal, Monastir

Data Science Intern - Deep Learning Pipeline for Trouser Keypoint Detection
Sartex Group ↗
- Engineered a data preprocessing pipeline for the **DeepFashion2 dataset**, cleaning annotations and normalizing **10,000+** trouser images to enhance dataset quality and model readiness.
- 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

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.

02/2025 – 04/2025

Real-Time Facial Emotion Recognition System
- Designed and trained a **CNN model** to classify five emotions from a dataset of **20K+ images**, applying data preprocessing and augmentation.
- Integrated the model with **OpenCV** to enable **real-time emotion** detection demo accessible via a webcam feed.

🎓 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 & ML:
CNNs, RNNs, Random Forest, SVM, Transfer Learning

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

📇 CERTIFICATES

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

🌐 LANGUAGES

- Arabic (Native)
- English (Intermediate)
- French (Fluent)