MIRRIHEN ATAOUI

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OBJECTIVE

Advanced technology engineering student at ENSTAB with a strong focus on AI, Machine Learning, and Computer Vision. Proven expertise in developing innovative solutions across various applications. Adept at applying AI in the energetic domain to drive advancements and efficiency.

EDUCATION

Advanced Technologies Engineering, ENSTAB
Physics Chemistry, IPEIN - Nabeul Preparatory Engineering Institute
Experimental Science Baccalaureate, Lycee Said Boubaker - High School

SKILLS

- **Languages**: Arabic (Native), French (B2), English (B2), Spanish (A2), Turkish (B1)
- **Programming Languages**: C, C++, Python, Java, JavaScript, HTML, CSS, MATLAB
- **AI/Machine Learning**: TensorFlow, PyTorch, Keras, OpenCV, Scikit-learn, Matplotlib
- **Hardware**: Arduino, Raspberry Pi
- **Platforms**: Windows, Linux, Arduino IDE
- **Tools**: GitHub, Visual Studio Code, IntelliJ IDEA
- **Soft Skills**: Leadership, Team-working, Public-speaking, Problem Solving, Good Communication

EXPERIENCE

End of Studies Internship, ACTIA Engineering Services Mar. 2025 – Present

- Developed a chatbot using Agentic AI and LLM with a CV Parsing Agent to extract JSON from CVs.
- Implemented a Job Matching Agent to score matches with job descriptions using RAG.
- Built a Quiz Generation Agent and system infrastructure using LangGraph, Angular, and Spring Boot.

Summer Internship, Horizop Energy Jul. 2024 – Aug. 2024

- Developed machine learning models (Linear Regression, XGBoost, LightGBM) to forecast energy consumption.
- Optimized photovoltaic production and energy distribution for smart building management.
- Utilized Scikit-learn and TensorFlow for model development and implementation.

Summer Internship, DEMCO Jul. 2023 – Aug. 2023

- Gained expertise in laser machine maintenance for jeans production.
- Studied photovoltaic panels and serviced laser equipment for operational efficiency.
- Contributed to projects enhancing optimization and energy efficiency.

PROJECTS

Intelligent Forest Fire Surveillance System, ENSTAB Jan. 2024 – May 2024

- Developed AI and ML models for real-time fire detection.
- Integrated intelligent cameras for data collection and monitoring.
- Built an interactive user interface using HTML, CSS, OpenCV, and TensorFlow.

Compliance Machine, ENSTAB Sep. 2023 – May 2023

- Integrated electronic components for an AI-driven compliance system.
- Used machine learning and computer vision to detect cylindrical part dimensions.
- Enhanced industry quality standards with innovative AI solutions.

Line Follower Robot, ENSTAB

- Designed a competitive line-following robot with PID control and encoders.
- Ensured high accuracy and stability for navigating complex courses.
- Tested and optimized robot performance for competitive environments.