



Khalid Zaikarani

AI & Data Science Engineer

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👤 PROFILE

Master's student in Artificial Intelligence with a strong foundation in machine learning, computer vision, and embedded systems. Eager to apply academic knowledge to real-world challenges through innovative and impactful projects.

📁 ACADEMIC PROJECTS

- 10/2024 – 12/2024

Intelligent Agriculture System: AI and Embedded Integration for Crop Optimization
Developed a smart farming system using AI for plant disease detection, environmental monitoring via sensors, and automated irrigation with solar tracking and real-time user interface.
- 10/2024 – 01/2025

Combining SVM Kernels to Improve Accuracy in Non-Linear 2D Datasets
Comparative study on SVM kernel functions and hybrid approaches to enhance classification performance on synthetic non-linear datasets.
- 02/2025 – 05/2025

Learning Basic Math with Image Generation Models
Explored early algorithmic reasoning in AI by training image generation models to recognize digits and predict simple arithmetic patterns like $y = x + 1$ through visual data only.
- 02/2025 – 06/2025

Sentiment Analysis for Algerian & Moroccan Dialects
Built a sentiment analysis model tailored for North African dialects using natural language processing techniques to classify social media content in Algerian and Moroccan Arabic.
- 04/2024 – 06/2024

Authentication of Educational Diplomas Using Blockchain Technology
Designed and implemented a secure blockchain-based platform for verifying academic credentials, integrating smart contracts and decentralized storage for tamper-proof validation.

🧠 SKILLS

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| Machine Learning SVM, Decision Trees, scikit-learn | Embedded Systems Arduino, ESP32, sensors & actuators | Deep Learning CNN, Transformers, PyTorch, TensorFlow |
| IoT & Real-time Systems MQTT, Node-RED, sensor networks | Computer Vision image classification, OpenCV | Blockchain Development Solidity, Smart Contracts, dApps |

🌐 LANGUAGES

- Arabic

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- English

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- French

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