



ZAKARIAE FANZI

- December 5, 2002
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- France

Certificates

- Certificat OpenAI - DataCamp
- Certificat AI Concepts - DataCamp
- Certificat Automation - Make
- Certificat Cloud - AWS

Languages

- English (TOEIC B2)
- French (Advanced)
- Arabic (Native)

Skills

- Deep/Machine Learning
- Python, C, VHDL
- FPGA, Raspberry Pi, STM32
- AWS, Kafka, Sockets
- MySQL, PostgreSQL, SQLite

Soft Skills

- ★ Leadership
- ★ Teamwork
- ★ Creativity
- ★ Analytical

About Me

AI Engineer

As a fourth-year ENSIM student specializing in smart and embedded systems and currently enrolled in a double diploma program, I am passionate about artificial intelligence technology. Fluent in Arabic, English, and French, looking for a **2-4 month internship** in the field of **AI** to expand my knowledge.

Education

- 2024 – present **Engineering Student (Dual Diploma)** ENSIM School
Major in Architecture of Real-Time and Embedded Systems
- 2022 – present **Engineering Student (Dual Diploma)** ENSIAS School
Major in Intelligent Systems Engineering (Software, Hardware, and Artificial Intelligence)
- 2020 – 2022 **CPGE Student** CPGE First prepa
Student in Preparatory Classes for Grandes Écoles (CPGE) - Physics and Engineering Sciences (PSI)

Professional Experience

- 1/7/2024 **Data Scientist (Intern)** NEXOTEK
Developed an API application with FastAPI to read and extract information from scanned invoices using PaddleOCR. Implement Regex to define patterns and rules for extracting only the relevant data. Furthermore, integrate the OLLAMA model from the Hugging face to improve the accuracy of the extracted information.
- 4/7/2023 **IoT Engineer (Intern)** INTELCOM
Created a real-time location system using the user's current GPS position for instant access to nearby healthcare facilities. This involved using the HTTP protocol, Kafka, Confluent Cloud technologies, and other tools to stream and analyze relevant data, finally presenting the results on an interactive map.

Projects

- CNN, RNN, Raspberry Pi **Drone Sound Classification** AI
Developed and integrated an AI model to detect and classify drone sounds.
- YOLO, OpenCV, NumPy **Surveillance Record Optimization** AI
Reduced CCTV video recording and implemented AI for people detection.
- Raspberry Pi, MQTT, JSON **Drone-RC** IoT
Developed a real-time drone communication application using the MQTT protocol.
- FPGA, VHDL **8-bit Computer** IT
Developed a basic 8-bit computer using essential components based on FPGAs.
- AWS, IaaS, Ubuntu **Building a Web Application** Cloud
Led the deployment of a cloud web application on AWS according to the well-designed framework.

Extracurricular Activities

- 2024 – 2025 Won first prize in the 24-Code competition organized by STMicroelectronics, ENSIM and partners.
- 2023 – 2024 Vice President of the ROBOTICS Club at ENSIAS.
- 2022 – 2023 Active in the ROBOTICS, IEEE, and AI clubs at ENSIAS