MOHAMED AMINE MANSRI

ADVANCED TECHNOLOGIES ENGINEER

CONTACT

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PROFILE

I am a highly driven Engineering student specializing in Advanced Technologies, with a strong passion for innovation in automation, IoT, and artificial intelligence.

EDUCATION

2022-Present   **ENSTAB , 3rd** year Advanced Technologies Engineering

2020-2022   **Preparatory Cycle Mathematics & Physics**

PROFESSIONAL EXPERIENCE

● Freelance   Classy Project
A multi-functional system designed to:
- Classroom Management: Streamline the tracking of absences and notes with statistical insights into student attendance and performance.
- Ticket Payment Equipment (TPE): Automate ticket generation and payment processing using:
  - RFID/NFC reader for contactless transactions,
  - Thermal printer for ticket issuance, and
  - Interactive TFT touchscreen for user-friendly navigation.
- Web API Integration: Facilitate real-time transaction validation, ticket printing, and user interaction via a responsive web interface.

Technologies : React , Flutter , Express ,Arduino/ESP32, Thermal Printer, RFID/NFC, Python, C++, HTML, CSS, JavaScript, Spring Boot , MySQL
Deployment: Ubuntu VPS , classy.tn

● Jul 2023 Aug 2023   **Express Air Cargo, Airline**
Internship (2 months) – Tunis

PROJECTS

- I developed an AI-powered tool for generating personalized job application emails. The system analyzes job postings from URLs and matches them with user portfolios to create professional, tailored emails aligned with specific job requirements.
  Technologies: Web Scraping, Streamlit, Pandas, ChromaDB, LangChain, Conda, LLM.

- I developed a document retrieval and question-answering system that processes PDF documents, stores them in a vector database, and enables content-based querying. The system leverages embeddings and language models to generate accurate responses.
  Technologies: RAG, Local LLM, Ollama, LangChain, PyTest,ChromaDB, Embeddings.

- I designed and developed a fully automated chicken incubator with precise control over temperature, humidity, and egg rotation. The system utilized environmental sensors to monitor and maintain optimal conditions, ensuring high hatch rates.
  Technologies: Microcontrollers (Arduino/ESP32), DHT Sensors, Motor Control Systems, Relay Modules.

SKILLS

Problem-solving
Adaptability
Clean Code & Documentation
Communication
Time Management & Organization
Continuous Learning

PROGRAMMING LANGUAGES & TECHNOLOGIES

AGENTIC AI - RAG - Python - C++ - Java - Spring Boot - Javascript - NodeJS - Express - Docker - MySQL - Git.

LANGUAGES

English, French, Arabic