AMINE MANSRI

ARTIFICIAL INTELLIGENCE ENGINEER

CONTACT

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PROFILE

I am a highly driven Engineering student specializing in Artificial Intelligence , with a strong passion for innovation in Web Dev , Artificial Intelligence and IOT .

EDUCATION

2022-Present	**ENSTAB , 3rd** year Advanced Technologies Engineering
2020-2022	**Preparatory Cycle Mathematics & Physics**

PROFESSIONAL EXPERIENCE

● **Freelance**

Classy Project : Visit at **classy.tn**
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.
  - 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 , Spring Boot , Express ,Arduino/ESP32, Thermal Printer, RFID/NFC, Python, C++, HTML, CSS, JavaScript, MySQL
Deployment: Ubuntu VPS

● **Jul - Aug 2023** **Express Air Cargo, Airline**
Internship (2 months) – Tunis
Participated in tasks involving database querying and maintenance, helping analyze and monitor cargo records, delivery logs, and customer data.

● **Freelance**

Visit **Classy Horizon**, a sleek business portfolio website for a multidisciplinary tech company. It highlights expertise in AI, IoT, Web & Mobile Development, Game Dev, and Automation. The site features a modern design, service breakdown, project showcase and a contact form to drive engagement.
Technologies: HTML, CSS, JavaScript, Vite, Tailwind, Netlify.

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 - LLM- NLP - Java - Spring Boot - Javascript - NodeJS - Express - Docker - MySQL - Git.

LANGUAGES

English, French, Arabic