

Mehdi Cherif

Software Engineering Student

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EXPERIENCE

Software Engineer

June 2024 - Present

Mindbay Technologies

London, UK

- Enhanced a high-performance web application by optimizing API calls, reducing server response times, and implementing caching strategies, resulting in a 50% performance boost.
- Created features for generating summaries, aiding users in tracking their progress and outcomes.
- Integrated an LLM to facilitate user interaction through sessions, improving user support.
- Collaborated with cross-functional teams, ensuring smooth deployment and integration of new features.

Software Engineer Intern

July 2023 - August 2023

Technozor

Tunis, Tunisia

- Built a web application for drone control using Flask, ReactJS, and ROS, enhancing agricultural drone operations.
- Implemented PID control algorithms, ensuring precise navigation for agricultural tasks.
- Integrated YOLO-based computer vision algorithms for accurate tree and farm detection.

PROJECTS

'9anounGPT': AI Lawyer Assistant

- Engineered a chatbot using Retrieval-Augmented Generation, enhancing legal consultation efficiency.
- Integrated the chatbot into a law forum website, facilitating user engagement and discussion.
- Implemented appointment scheduling features, streamlining user interactions with lawyers.

Real-time Tweets Sentiment Analysis and Emotion Detection

- Architected an end-to-end pipeline for real-time sentiment analysis, providing actionable insights on trending topics.

Tunisian Water Level Prediction

- Established a Time Series model predicting water levels in Tunisian dams, aiding water resource management.

CO2 Emission Prediction in Rwanda

- Developed a LightGBM regression model to forecast CO2 emissions, supporting environmental policy decisions.

Traffic Signal Optimization System

- Designed a system using YOLO and GRU to optimize traffic light duration, reducing traffic congestion.

EDUCATION

National Institute of Applied Science and Technology

Software Engineering

2020 - expected 2025

LANGUAGES

English (Proficient), French (Proficient), Arabic (Native)

ACHIEVEMENTS

First Place in Eurobot Qualification in Tunisia (April 2023)

Third Place in Data Overflow Data Science Challenge (April 2023)

First Place in NRW Makeathon by Orange FabLab (June 2023)

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C, C++, PHP

Frameworks: NextJS, ReactJS, Angular, NestJS, Flask, Django, ROS

Message Brokers: Apache Kafka, RabbitMQ

Developer Tools: Git, Docker, Kubernetes