

Oussema Ben Ameur

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ABOUT ME

Second-year Applied Computer Science Engineering Student at École Nationale d'Ingénieurs de Sousse with a strong interest in Software Development, Machine Learning and MLOps.

EDUCATION

- **École Nationale d'Ingénieurs de Sousse - ENISO** Sousse, Tunisia
September 2024 - Present
Master's-level degree in Software Engineering
- **Monastir Preparatory Engineering Institute** Monastir, Tunisia
September 2022 - June 2024
Pre-Engineering Studies : Maths and Physics
 - Intensive and highly selective two-year scientific program, serving as a preparatory course for the national entrance exams to engineering schools.
 - **Rank:** 420/1800 in the national entrance exam for engineering schools.
 - **Courses:** Analysis and Calculus, Algebra, Physics, Chemistry, Computer Science, Engineering Science and Technology, French, English

WORK EXPERIENCE

- **Core Techs Solutions** Sousse, Tunisia
September 2025 - Present
Part-Time Software Engineer
 - Maintained and extended computer vision projects, including building and refining deep learning models using **PyTorch**.
 - Implemented **MLOps workflows** for model deployment using **Docker** and **Kubernetes**, and managed model versioning and experimentation tracking with **MLflow**.
 - Developed features for the company's mobile applications using **Flutter** and contributed to backend systems built with **Spring Boot**.
 - Collaborated closely with senior engineers to ensure scalable, production-ready ML pipelines and streamline deployment processes.
- **Core Techs Solutions** Sousse, Tunisia
June 2025 - July 2025
Software Engineering Intern
 - Designed and trained a **computer vision model** for **document state assessment**, detecting folds, tears, and visual degradation.
 - Developed preprocessing and feature extraction pipelines using **PyTorch**, achieving notable improvement in model accuracy.

ACADEMIC PROJECTS

- **AI-Powered Writing Assistant Platform:** (January 2025)
 - Developed a full-stack application enabling users to draft emails and meeting summaries with bullet points, which AI elaborates into professional content.
 - Built the backend with **Spring Boot** and frontend with **React**, while creating a cross-platform mobile app using **Flutter**.
 - Fine-tuned a large language model specifically for business communication, ensuring contextually accurate and tone-appropriate output.
 - Collaborated with a team to design user-friendly interfaces and implement robust API endpoints for seamless client-server communication.
- **Predictive Nutrient Availability Analysis and Sustainable Agriculture:** (June 2024)
 - Developed machine learning models to predict essential soil nutrients for optimizing maize crop yields in African farms.
 - Applied time-series analysis on environmental factors and satellite data (Sentinel and MODIS) to assess their impact on soil nutrient variability.
- **Predictive Analysis for Play Store Market:** (December 2024)
 - Spearheaded the development of deep learning models using **Keras** to improve app install prediction accuracy, supported by analysis of a 3-million-row dataset with **pandas**, **NumPy**, and **Matplotlib**.
 - Collaborated on prototyping an AI-driven market research tool to enhance app performance evaluation, delivering actionable insights for businesses and developers.

SKILLS SUMMARY

- **Programming Languages:** Python, C/C++, Java, JavaScript/TypeScript
- **Machine Learning:** Scikit-Learn, PyTorch, Statsmodels
- **Data & Visualization:** pandas, NumPy, Matplotlib, Seaborn
- **Web & Mobile Development:** Spring Boot, React, Flutter
- **MLOps & Tools:** Docker, Kubernetes, MLflow, Git/GitHub, LangChain
- **Soft Skills:** Leadership, Stress Management, Writing, Public Speaking, Time Management
- **Languages:** Arabic (Native), English (C1), French (B2), German (B1)

VOLUNTEER EXPERIENCE

- **AI Lead at Electronica Club - ENISo:** September 2025 – Present
 - Led both theoretical and practical workshops covering the fundamentals of Artificial Intelligence and Machine Learning.
 - Led and supported projects relying heavily on Machine Learning models and embedded software integration.
 - Participated in internal training sessions to enhance project execution skills and cross-functional collaboration.
- **Member of ENISo Junior Entreprise - JEENISo:** September 2024 – Present
 - Led marketing initiatives including content creation and visual identity design, while contributing to client prospecting and outreach efforts for business development.
 - Participated in internal training sessions to enhance project execution skills and cross-functional collaboration.
- **Moderator – School Partnership Program:** May 2025
 - Moderated the launch event of ENISo's new Automotive Software Engineering program, held in the presence of representatives from GIZ, Deggendorf Institute of Technology (DIT), Dräxlmaier, and the German Embassy in Tunis.
 - Led discussions between industry leaders, professors, and school leadership to highlight the program's vision of industry-aligned education and student career development in the automotive tech sector.

CERTIFICATES

Building RAG Agents with LLMs - NVIDIA

Machine Learning Specialization - DeepLearning.AI, Stanford University

Deep Learning Specialization - DeepLearning.AI

Machine Learning In Production - DeepLearning.AI

Natural Language Processing - DeepLearning.AI

HOBBIES AND INTERESTS

Gaming: Participated in and won multiple competitions online and on-site