

# Yahya BELLMIR

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AI & Data Science Engineering student specializing in Machine Learning, NLP, and Computer Vision, seeking an end of studies internship (PFE) to build impactful, data driven applications.

## EDUCATION

### Ecole National des Arts et Metiers :

Engineering degree : "Industrial Engineering Artificial Intelligence and Data Science"

### Ecole National des Arts et Metiers :

Integrated Preparatory Year

Sep 2024 - July 2026

Meknes, Morocco

Aug 2023

Meknes, Morocco

## EXPERIENCE

### Internship, RADEM Meknes Web Development | On-site (Meknes, Morocco)

Aug 2024 - Sep 2024

- Engineered a full-stack supervisor management app using **Java**, **Spring Boot**, and **Spring Security**.
- Architected secure JWT/BCrypt authentication and developed a responsive UI with **HTML/CSS** & **Bootstrap**.
- Streamlined the full deployment pipeline by containerizing the final application with **Docker**.

### Data Scientist Intern, Declic (500 Global) Data Science | Remote (Paris, French)

Jun 2025 - Sep 2025

- Fine-tuned a **TinyLlama** model using SFT & DPO to build a lightweight LLM event recommender.
- Creating a dialogue system to interpret complex user requests (intention, tone, location).
- Achieved **91.3%** accuracy with a sequential **SFT→DPO** strategy, outperforming the **88.1%** SFT baseline.
- Engineered a **T5-based** data generation pipeline to automatically convert logs into instructional datasets.
- Containerized the final model for production-level inference using **Docker** and **Ollama**.

## Certificates

Huawei Certification: Artificial Intelligence Technology and Applications

2024

Microsoft: Career Essentials in Generative AI by Microsoft and LinkedIn

2025

Udemy: Mastering the Seven Essential Quality Improvement Tools

2025

Agile Enterprise Coach: Agile Fundamentals Certification

2025

DataScientist.fr: Introduction to Docker

2025

DataCamp: Associate Data Scientist

2025

ExpertEase Education: Power BI Fundamentals A to Z

2025

Udemy: Master Python Web Scraping & Automation using BS4 & Selenium

2025

Udemy: Docker for Beginners: a Hands-On Practice Course (+12 hours)

2025

## PROJECTS

### Parking Space Recognition System | AI & Data Science

Oct 2024 - Jan 2025

- Built a real-time parking occupancy detection system using **Python**, **OpenCV**, and the full ML pipeline.
- Achieved **98%** (SVM) and **95%** (YOLOv8) detection accuracy with fine-tuned models.
- Orchestrated the ML pipeline (data preprocessing to model optimization), ensuring reproducibility and efficiency.

### Multi-Agent System for Mapping and Surveillance | Robotics & AI

Feb 2025 - June 2025

- Developed a multi-agent system (**Python**, **Webots**) for autonomous exploration with e-Puck robots.
- Implemented cooperative mapping via data synchronization and inter-robot communication.
- Integrated computer vision (**YOLOv8**) for object detection and an intelligent alert system.

### Automated Access Control System via ESP32 and RFID | IoT & Industrial Engineering

April 2025 - June 2025

- Engineered a secure IoT-based access control system integrating an **ESP32**, **RC522 RFID**, and an electric lock.
- Developed a dynamic **PHP/MySQL** web interface for seamless badge administration and detailed access logging.
- Oversaw complete hardware integration and conducted rigorous functional testing within a local XAMPP environment.

## SKILLS

Languages

Python, C, C#, C++, Java, LaTeX, Java Script, HTML, CSS, ESP32

Software

Linux, Tensorflow, Pytorch, Docker, OpenCV, Spring Boot, Git, PowerBI

Academic

Machine learning, Deep learning, Industry 4.0, Prompt Engineering, Lab Factory, Data science, Data Analytics, Lean Six Sigma, Agile Methodology.

Soft Skills

Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, On-site coordination, Teamwork, Adaptability.

Frameworks

RAG, ReadTheDocs, Documentation, Hugging Face, Langchain, Ollama.

Office software

Excel, Word, LaTeX, PPT

## Languages

– English: fluent – French: fluent – Arabic: Native