

# 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**) starting **February-March 2026** in AI/Data Science, ML, or related IT fields to build impactful, data-driven applications.

## EDUCATION

### Higher School of Arts and Crafts :

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

September 2023 - July 2026

Meknes, Morocco

### Higher School of Arts and Crafts :

Integrated Preparatory Year

2021 - 2023

Meknes, Morocco

## EXPERIENCE

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

June 2025 - September 2025

- Fine-tuned **TinyLlama** (SFT & DPO) as a lightweight event recommender with a dialogue system for complex requests.
- 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**.

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

August 2024 - September 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**.

## Certificates

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

DataCamp: Certified Associate Data Scientist | Career Certification

2025

ExpertEase Education: Power BI Fundamentals A to Z

2025

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

2025

DataCamp: Data Engineer in Python, Deep Learning with PyTorch | Career Tracks

2025

French Institute: DELF B2 (Diplôme d'Études en Langue Française)

2025

## PROJECTS

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

February 2025 - June 2025

- Engineered **cooperative exploration algorithm** (**Python**, **Webots**) with real-time map fusion and **deadlock resolution**.
- Integrated **YOLOv8** object detection with **smart alarm system** for duplicate alert prevention and coordinated surveillance.

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

April 2025 - June 2025

- Engineered secure IoT access control with **ESP32**, **RC522 RFID**, electric lock, and **Arduino** programming.
- Developed **PHP/MySQL** web interface for badge administration, access logging, and real-time monitoring.

### NetPlag-Stream: Distributed Plagiarism Detection System | AI & Big Data ↗

October 2025 - December 2024

- Built distributed pipeline with **Spark Streaming**, **Delta Lake**, and **ElasticSearch** for real-time academic document indexing.
- Implemented automated similarity evaluation against **HDFS** database, first streaming-based plagiarism detection.
- Containerized Spark, HDFS, Elasticsearch and Flask with **Docker Compose**, orchestration and persistent volumes.

### AI Platform for Test Plan Generation | NLP & RAG

October 2025 - Present

- Engineered parser extracting structured requirements (ID, type, priority) from **PDF/DOCX** specification documents.
- Built **RAG pipeline** (**FAISS**, **Embeddings**) generating complete test plans with cases, steps, and Req↔Test traceability.
- Deployed as SaaS with **FastAPI**, **Makerkit**, **Docker Compose**, enabling automated Excel/JSON export of test suites.

## SKILLS

Languages Python, C, C++, Java, TeX, JavaScript, HTML, CSS

Software & Tools Linux, TensorFlow, PyTorch, Docker, OpenCV, React, Spring Boot, Git, Power BI, Apache Spark, Hadoop, ElasticSearch, ESP32, Arduino

Academic Machine Learning, Deep Learning, Data Science, Data Analytics, Big Data, Industry 4.0, Prompt Engineering, Computer Vision, NLP, Lean Six Sigma

Soft Skills Time Management, Problem-solving, Engaging Presentation, Leadership, On-site Coordination, Teamwork, Adaptability, Communication

Frameworks RAG, ReadTheDocs, Hugging Face, Langchain, Ollama, Fine-tuning, REST APIs

Methodologies Agile, Scrum, DevOps, CI/CD, Documentation

Office Software Excel, Word, LaTeX, PowerPoint

## Languages

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