





# 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

## 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 - Present

- 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.

### 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, 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, Fine-tuning  |
| Office software  | Excel, Word, LaTeX, PPT  |

## Languages

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