Yahya BELLMIR

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PortfolioWebsite: yasouimo.github.io/Portfolio/

As an AI and Data Science student, I am passionate about exploring Artificial Intelligence, particularly in Machine Learning and Computer Vision, while also developing my skills in web development. I enjoy solving complex problems through data-driven approaches and building efficient, scalable solutions.

EDUCATION

Ecole National des Arts et Metiers :   Sep 2024
Engineering degree : *"Industrial Engineering **Artificial Intelligence** and **Data Science**"*   Meknes, Morocco
Ecole National des Arts et Metiers :   Aug 2023
Integrated Preparatory Year   Meknes, Morocco
EMEPE School :   June 2020
High school degree in mathematical sciences   Meknes, Morocco

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
Linkedin: Project Management Foundations   2025
Agile Enterprise Coach: Agile Fundamentals Certification   2025

EXPERIENCE

Internship, RADEM Meknes *Web devolopement* | On site (Meknes, Morocco)   Aug 2024 - Sep 2024
- Developed a web application using Spring Boot to streamline the management of supervisors across RADEM agencies.
- Implemented features for efficient tracking, reporting, and administration of supervisor activities at multiple locations.
- Ensured the application was scalable, secure, and maintainable, utilizing Spring Boot for backend development and HTML, CSS, and JavaScript for responsive and interactive frontend design.

BCG Data Science Job Simulation on Forage   Feb 2025 - March 2025
- Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills, identifying essential client data, and outlining a strategic investigation approach.
- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualization techniques for insightful trend interpretation.
- Engineered and optimized a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Delivered a concise executive summary for the Associate Director, providing actionable insights for informed decision-making based on the analysis.

PROJECTS

Academical Project: Parking Space recognition system | AI & Data Science   Oct 2024 - Jan 2025
- Developed a Parking Recognition System using computer vision to detect empty and occupied parking spots.
- Utilized SVM and YOLOv8 models for accurate parking space detection.
- Contributed to the full project lifecycle, from concept to implementation.

Personal Project: Football Game Analysis | Computer Vision & AI   Dec 2024 - Feb 2025
- Developed a football game analysis system using computer vision and machine learning.
- Implemented a YOLO-based object detection model to track players and the ball in video footage.
- Designed algorithms to assign teams based on jersey colors and determine ball possession.
- Generated annotated videos with bounding boxes, team assignments, and ball possession indicators.

Academical Project: Multi-Agent System for Mapping and Surveillance | Robotics & AI   Feb 2025 - Present
- Working on the study and implementation of a cooperative multi-agent system for mapping and surveillance using e-Puck robots in the Webots simulation environment.
- Designing a robust framework enabling multiple autonomous agents to collaboratively explore and monitor unknown environments.
- Integrating advanced robotics, computer vision, and machine learning techniques to enhance real-time communication and coordination between agents.
- Aiming to achieve significant improvements in mapping accuracy, exploration efficiency, and surveillance coverage compared to single-agent systems.

SKILLS

Languages	Python, C, C#,C++, Java, LaTeX, Java Script, HTML, CSS
Software	Linux, Tensorflow, Pytorch, Docker, OpenCV
Academic	Machine learning, Deep learning , Industry 4.0, Prompt Engineering, Lab Factory, Data science , Data Analytics, Lean Six Sigma.
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

Interests

AI Enthusiast Passionate about artificial intelligence and its applications in real-world problems.
Web Development Enthusiast Interested in building interactive, user-friendly websites and web applications using modern technologies.
Engineering Problem Solver Focused on applying engineering principles to solve complex, real-world challenges through innovative solutions.
Personal Projects Continuously working on AI, web development, and engineering-related projects to expand practical knowledge and skills.