

Jean-Eudes Codo

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📍 Abomey-Calavi, Bénin

Summary

Final-year Computer Science student specializing in Artificial Intelligence. Interested in machine learning, optimization, and robotics. Passionate about building intelligent systems and contributing to tech projects that solve real-world problems in Africa.

Education

IFRI, University of Abomey-Calavi, Bénin **Nov 2023 – Present**
Bachelor of Science in Artificial Intelligence

La Grande Académie, Zopah, Abomey-Calavi **2022**
Scientific Baccalaureate (Series C)

Experience

Software Engineer **June 2025 – Jan 2026**
IFRI & Tekbot Robotics *Cotonou, Bénin*

- Co-developed an autonomous robot dedicated to intelligent waste sorting, integrating computer vision and embedded control algorithms.
- Achieved 2nd place (silver medal) in the pan-African Tekbot Robotics Challenge (TRC) 2025.

EEIA 2024 – Summer Program **2024**
Ecole d'Été en Intelligence Artificielle *Bénin*

- Data analysis with Python and study of machine learning models.
- Winner of the Python coding challenge (Challenge Right Com).
- Applied computer vision for autonomous vehicle design.

Projects

MPVRP-CC | Multi-Product Vehicle Routing Problem **2026**

- Contributed to developing a variant of the multi-product vehicle routing problem (MPVRP) integrating production changeover costs and cleaning constraints between compartments.

MacroLLM | AI Forex Assistant **2025**

- Developed an assistant based on DistilRoBERTa and a RAG architecture (Google Gemini) to analyze the influence of economic announcements and generate predictive trading recommendations on currency pairs.

Opti'Plan | Constraint Programming **2025**

- Built automated thesis defense scheduling system using constraint programming (OR-Tools), reducing planning time from 2–3 days to under 5 minutes.

ifri-mini-ml-lib | Educational ML Library **2025**

- Developed the dimensionality reduction module (PCA, t-SNE) for ifri-mini-ml-lib, an ML library built from scratch at IFRI, enabling students to understand and implement fundamental ML algorithms without external dependencies.

Health Cost Analysis | Statistical Modeling **2025**

- Exploratory analysis and predictive modeling of medical charges for a sample of 1,000 insured individuals to identify key risk factors (BMI, smoking) and optimize tariff segmentation.

Generative AI Usage Analysis | Quantitative Study **2025**

- Statistical and quantitative study (100+ respondents) analyzing adoption drivers, usage segmentation, and performance criteria of AI assistants in university settings.

Cars Price Predict | Machine Learning **2024**

- Developed a platform using a machine learning model to predict car prices based on their characteristics.

Tracking by Drone | Computer Vision **2023**

- Designed a system combining computer vision and embedded control algorithms to keep a target in the drone's field of view while dynamically adjusting its trajectory and movements.

Extracurricular Activities

THE LAB – AI innovation laboratory for inclusive, culturally-aware AI in Africa. **June 2025 – Present**

- Member engaged in ethical training, local solution creation, and collaborative spaces for community impact.

FRIARE Africa **March 2025 – Present**

- Active member promoting ethical and innovative AI in Africa through collaborative projects, awareness campaigns, and local talent support.

Hackathons & Conferences

AMLD Africa | Applied Machine Learning Days in Africa **2026**

- Delivered a presentation on MacroLLM, showcasing the potential of AI in finance and trading.
- Conference focused on ML and AI applications for innovation and sustainable development in African countries, bringing together academia, research, and industry.

BWAI 2025 | Benin Workshop in Artificial Intelligence **2025**

- Annual workshop hosted by IFRI at the University of Abomey-Calavi, bringing together students, researchers, and professionals to promote AI research, innovation, and collaboration in Africa.

Le Foncier Intelligent | ASIN & LuxDev Bénin Hackathon **2025**

- Built a land analysis solution in 72h combining multimodal OCR for topographic sketch extraction, geocoding, and land use analysis through satellite imagery cross-referencing.

Technologies

Languages: Python, SQL, R

AI: Machine Learning, Deep Learning, NLP, Constraint Programming & Optimization, Computer Vision

Robotics: ROS 2

Web: Django, Laravel

Analytical Skills: Data preprocessing, visualization, statistical modeling

Other: Teamwork, leadership, communication, problem solving, critical thinking, continuous learning

Interests

- Automotive & autonomous robots
- Finance & retail trading
- Video games