

Rosas Behoundja

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Artificial Intelligence student passionate about using combinatorial optimization and machine learning to build practical tools that solve real-world challenges across Africa.

Education

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

Experience

Research Intern Abomey-Calavi, Bénin
Computer Science and Applications Research Laboratory of IFRI (LRSIA) March 2026 – Present

- Research on sequence variables, a constraint programming computational domain for routing and sequencing problems; contributions to VRP projects at the lab.

AI Developer Cotonou, Bénin
IFRI & Tekbot Robotics June 2025 – Jan 2026

- Developed and deployed an AI vision model and robotic controls for an automated waste-sorting system, allowing a robot arm to instantly recognize and sort trash in real time to improve urban recycling.

Machine Learning Intern Johannesburg, S. Africa
eTihuku June 2025 – Aug 2025

- Worked on an AI platform called SentiMaster that collects customer feedback from social media and phone calls, automatically translates and analyzes the hidden emotions and topics, and helps companies predict customer churn.

Selected Projects

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- **MPVRP-CC**: Proposed a variant of the multi-product vehicle routing problem with production changeover costs, modeling distribution with cleaning constraints between compartments.
 - **Opti'plan**: Co-built an automated scheduling model that reduced the university's thesis defense planning time from 3 days to under 5 minutes using Constraint programming.
 - **Fluxy**: Created a web app that automatically extracts bank transaction data from PDFs and images, cutting manual entry time by 90% using Gemini OCR vision model.
 - **tiny-language-model**: Built a custom AI language model from scratch, trained to understand and generate French text.
 - **ifri-mini-ml-lib**: Co-built an open-source Python library that reimplements classic AI algorithms from scratch for educational purposes; published on PyPI and used by IFRI students.

Awards & Highlights

1st Prize – IndabaX Benin Republic Hackathon 2024 [Certificate](#)

2nd Place – Tekbot Robotics Challenge 2025 [Link](#)

THE LAB & FRIARE Africa: Co-lead an AI awareness community in Bénin; participate in awareness initiatives on AI ethics, transparency, inclusion.

Skills

Programming: Python, Java, SQL, R

AI: Machine learning, NLP, Constraints programming, Computer Vision, Metaheuristics

Infra & Tools: PyTorch, Scikit-learn, Gurobi, Azure, ROS2, FastAPI, PyPI/CI-CD

Analytical Skills: data preprocessing, visualization, statistical modeling.

Soft skills: Teamwork, leadership, communication, problem solving, critical thinking.

Languages: French (native) · English (professional)