

Stéphane AHOLOU-BAH

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About

I am particularly interested in applying artificial intelligence to real-world challenges, including public safety, healthcare, resource optimization, and language processing. My goal is to explore and develop AI-based solutions that improve efficiency, decision-making, and accessibility in these areas.

Education

- University of Abomey-Calavi: IFRI** [🔗](#) 2022 – Present
Bachelor's Degree in Computer Science (Option: Artificial Intelligence)
- 3rd year degree in AI
 - **Main modules:** Machine Learning, NLP, Computer Vision, Data Analysis, Optimization; Calculus, Linear Algebra, Statistics, Probability, Algebraic Structures; OOP, Data Structures, Application Development
- CEG Pahou** 2022
Baccalaureate – Science Track (Série C)
- Highest Honours (16.27/20)

Experience

- Backend Developer & AI Engineer (Internship)** Nov 2025 – Jan 2026
[SharayTalent](#) [🔗](#)
- Developed a Django-based backend for an AI-powered talent management platform, streamlining recruitment processes
 - Implemented core AI functionalities, including automated CV extraction, psychometric assessment analysis, and quiz generation
 - Contributed to API design, database management, and system architecture for scalable and efficient talent acquisition solutions
- AI Engineer (Internship)** Bénin Jun 2025 – Sep 2025
[AdjibolaTech](#) [🔗](#)
- Worked on AI-based telemedicine solutions, including real-time transcription and contextual medical assistance
 - Developed an ASR model adapted to Beninese French accents and specialized in the medical field to improve speech recognition accuracy
- Backend Developer (Internship)** Abomey-Calavi, Bénin Jul 2024 – Sep 2024
[Cabinet Jilmonde Consulting](#) [🔗](#)
- Built a web portal for a company that sells and produces newspaper articles

Projects

- Chronic Kidney Disease Stage Prediction** AI4CKD Hack
- Built an ML model to predict CKD stages using clinical and demographic data prior to lab tests
 - Applied preprocessing, statistical analysis, and classifiers (Random Forest, SVM, KNN) to support early diagnosis
- [Demo](#) [🔗](#) | [Report](#) [🔗](#) | [GitHub](#) [🔗](#)
- Whisper Small Fine-Tuning for Beninese French Accents** Speech Recognition
- Adapted Whisper Small using radiology reports and locally collected speech data
 - Reduced Word Error Rate from 109.6% to 20% on test samples

[Model](#) [🔗](#)

TriPostal – Automatic Postal Code Recognition

Computer Vision

- Automated postal sorting by detecting, segmenting, and classifying digits from scanned envelopes
- Used image processing and k-Nearest Neighbors (KNN) for recognition

Automated Exam Scheduling System

Optimization

- Built a constraint programming system to optimize university exam schedules
- Respected room capacity, student availability, and time-between-exams constraints

[GitHub](#) [🔗](#)

Zindi ARC Challenge Africa

Competition

- Investigated transductive inference with LLMs to generate exact code solutions per instance
- Achieved 0.30 accuracy on the private test set

[Notebook](#) [🔗](#) | [Competition](#) [🔗](#)

ANIP Challenge: Face Recognition, Age Estimation, OCR

Computer Vision

- Built models for face detection, age estimation, and OCR with data preprocessing and evaluation

[GitHub](#) [🔗](#) | [Competition](#) [🔗](#)

Organizations

[AMLD Africa](#) [🔗](#)

2025 – 2026

- AMLD Africa Ambassador; organized AMLD events in Benin to promote inclusive AI education

Awards

Winner – [LLMs for OHADA Law Innovation Competition](#) [🔗](#), Force-N Senegal (May 2025)

Certificates

Large Language Models – Force-N Senegal (Apr 2025)

[NeuroAI](#) [🔗](#) – Neuromatch Academy (Jul 2025)

ACP Summer School 2025 – Association of Constraints Programming (Aug 2025)

MOOCs

[OpenCV's TensorFlow Keras Bootcamp](#) [🔗](#)

[Advanced Learning Algorithms \(Stanford\)](#) [🔗](#) – Coursera

IBM Data Science Professional Certificate

References

Dr Ratheil HOUNDE – AI Bachelor's Degree Manager, IFRI-UAC | vratheilhoundji@gmail.com [🔗](#)

Dr Sègbédji GOUBALAN – CEO, AdjibolaTech | sjgoubalan@adjibola.tech [🔗](#)

Languages

French – Native | **English** – B2

Skills

Hard Skills: Python, SQL, NumPy, Pandas, Django, Data Analysis, Backend Development, TensorFlow, PyTorch, OpenCV, Scikit-Image

Soft Skills: Analytical thinker, collaborative and team-oriented, curious and creative