

Stéphane AHLOU-BAH

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ABOUT ME

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.

EXPERIENCE

- AI Consultant** 04/2026 – Present
Agence de Développement de Sèmè City 📍
Web & AI Developer - Internship 11/2025 – 01/2026
SharayTalent 📍
Developed a Django backend for an AI-driven talent management platform, integrating automated CV extraction, psychometric analysis, and quiz generation. Contributed to scalable system design through API development, database management, and architecture optimization to streamline recruitment processes.
- AI Engineering Intern** 06/2025 – 09/2025
AdjibolaTech 📍
Worked on AI-based telemedicine solutions, such as real-time transcription and contextual medical assistance. Developed an ASR model adapted to African French accents and specialized in the medical field, in order to improve the accuracy of speech recognition systems in the healthcare sector.
- Backend Development Intern** 07/2024 – 09/2024
Cabinet Jilmonde Consulting 📍
Abomey-Calavi, Bénin
Worked on a project to create a web portal for a company that sells and produces newspaper articles.

EDUCATION

- Bachelor of Science in Computer Science (Option: Artificial Intelligence)** 10/2022 – 04/2026
University of Abomey-Calavi: IFRI 📍
Abomey-Calavi, Bénin
Main modules:
 - **AI and data science:** Machine Learning, NLP, Computer Vision, Data Analysis, Optimization
 - **Mathematics:** Calculus, Linear Algebra, Statistics, Probability, Algebraic Structures
 - **Programming:** Object-Oriented Programming, Data Structures, Application Development**GPA:** Year 1 (L1): **16.02/20** | Year 2 (L2): **15.62/20** | Year 3 (L3): **15.45/20**
- Baccalaureate – Science Track (Série C)** 2022
CEG Pahou
Ouidah, Bénin
 - Highest Honours (**16.27/20**)

VOLUNTEERING

- AML D Africa** 📍 2025 – Present
AML D Africa 2025-2026 Ambassador & Coordinator AML D Node Benin
Role: Organize AML D events in Benin to promote inclusive AI education as part of a pan-African initiative to democratize AI.
- iSheero** 📍 2026 – Present
Operations Coordinator of iSheero AI Saturdays
- Sèmè City** 📍 07/2026
ML Mentor - IOAI 2026 Preparation Phase

SKILLS

- AI Engineering
- Image & Signal Processing
- Data Analysis
- Backend Development

AWARDS & HONOURS

Ambassador Certificate for Official Broadcast Organizing in Benin 2026
AMLD Africa 2026

Winner – LLMs for OHADA Law Innovation Competition by Force-N Senegal [🔗](#) 05/2025
Zindi Africa
The challenge was organized after a training program in AI & NLP. During the hackathon, we developed a legal question-answering system using retrieval-augmented generation.

Recipient of the Benin Government Excellence Scholarship 2022
Benin Government

CERTIFICATES

GCI World April 2026 [🔗](#) 04/2026 – 08/2026
Matsuo-Iwasawa Laboratory, University of Tokyo

Computational Neuroscience - Summer School 2026 [🔗](#) 07/2026
Neuromatch Academy

ML Engineering [🔗](#) 04/2026
iSHEERO X DataCamp Program

ACP Summer School 2025 [🔗](#) 08/2025
Association of Constraints Programming

Virtual Deep Learning Indaba 2025 [🔗](#) 08/2025
Deep Learning Indaba

NeuroAI - Summer School 2025 [🔗](#) 07/2025
Neuromatch Academy

Natural Language Processing & Large Language Models [🔗](#) 04/2025
Force-N Senegal

IBM Data Science Professional Certificate [🔗](#) 2025
Coursera

PROJECTS & RESEARCH

Can Movement Dynamics Classify and Predict Social Behaviours in Mice? [🔗](#)
Behaviours and Dynamics

- Analysed the **CalMS21 dataset** of resident-intruder mouse interactions using 2D pose keypoints and behavioural annotations to study social behaviours including investigation and attack.
- Developed an **engagement/confrontation metric** from movement velocity and directional alignment to quantify the interaction dynamics between two mice.
- Investigated the ability of **temporal and machine learning models** to classify and predict social behaviours from movement dynamics.

Whisper Small Fine-tuning for African French Accent Recognition [🔗](#)

- Adapted the Whisper Small model for African French accents using radiology reports. Achieved a **Word Error Rate (WER) reduction from 109.6% to 20%**, representing a **75% improvement** in transcription accuracy, on our test sample.
- Creation of the **first open-source dataset** [🔗](#) of African French intended for speech recognition technologies in the medical field.
- Bachelor Thesis Project [🔗](#)

A Telecom Company Value-Tier Segmentation & Retention [🔗](#)

Analyzed subscriber consumption and profile data from a telecom operator (~100k customers) to build a Machine Learning-based value segmentation. The model identified at-risk and under-monetized segments, providing the foundation for redesigning the company's CRM strategy, pricing, and service offerings.

Echo Media (Top 5, DataCamp × iSheero First Cohort Hackathon) [↗](#)

- Developed an AI copilot that transforms complex **GDELT** event data into actionable media intelligence through natural language queries.
- Built an analytics pipeline generating interactive visualizations and enabling conversational exploration of news, reputation, and geopolitical trends related to Benin.
- **Top 5 team**, DataCamp × iSheero First Cohort Hackathon.

Automated Exam Scheduling System [↗](#)

Development of an automated exam scheduling system using **constraint programming** to optimize university exam schedules. The solution efficiently assigns exams to available rooms while respecting key constraints such as room capacity, student schedules, and time between exams. **GitHub** [↗](#)

AI4CKD Hack [↗](#)

We developed a machine learning model to predict chronic kidney disease stages using clinical and demographic data collected prior to laboratory test results. The dataset used for the project was provided by **CNHU-HKM** (Benin) in collaboration with the **AI4CKD initiative**. Applied advanced preprocessing, statistical analysis, and classification techniques (**Random Forest, SVM, KNN**) to support early diagnosis and improve patient care. **Demo** [↗](#) **Report** [↗](#)

Image Processing [↗](#)

An Hugging Face space (for basics image preprocessing functions) that performs various image processing operations, including **Gaussian** and **Mean filters**, binarization, resizing, rotation, and morphological transformations such as dilation and erosion.

LANGUAGES

Français

Native Language

English

Level B2 [↗](#)

REFERENCES

Dr Ratheil HOUNDJL, *AI Bachelor's Degree Manager*, IFRI-UAC
vratheilhoundji@gmail.com

Dr Sègbédji GOUBALAN, *CEO*, AdjibolaTech
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