

Cherno Basiru Jallow

[in LinkedIn](#) | [+220-787-8796](#) | [cbjtech.github.io/portfolio/](https://github.com/cbjtech) | jallowchernobassiru@gmail.com | [GitHub](#)

Skills

- Python | NumPy | PyTorch | Scikit-learn | OpenCV | Pandas | Matplotlib | Fastai | Git | GitHub | HTML | CSS | JavaScript
- Machine Learning | Deep Learning | Neural Networks | Convolutional Neural Networks (CNNs) | Computer Vision | Backpropagation | Gradient Descent | Model Evaluation
- Research | Scientific Computing | Data Analysis | Version Control | Jupyter Notebooks | Technical Writing | Public Speaking | English (Fluent) | Wolof (Basic) | Fula (Fluent).

Experience

Youtuber

[YouTube](#)

01/2023 - Current

- **CBJtech**, AI/ML Projects, Deep Learning, Coding Tips, Tech Life, Research Journey, Student Motivation, Self-Taught CS

Data Science/AI Intern

MRC Unit The Gambia at LSHTM

Fajara, The Gambia

03/2025 - Present

- Designed and trained a pneumonia detection model using **Fastai** and **transfer learning** on X-ray datasets, helping explore ML's potential in low-resource healthcare diagnostics. Presented project findings and technical insights at **UTG ICT Week 2025**, showcasing real-world AI applications to students, researchers, and professionals.
- Built a complete neural network from scratch in **NumPy**, covering forward pass, backpropagation, and gradient descent to strengthen foundational ML knowledge.
- Applied **PyTorch** for advanced **computer vision** tasks, gaining hands-on experience with CNN architectures, data preprocessing, and model evaluation.
- Worked under expert supervision to explore scalable ML workflows for scientific research, contributing to real-time discussions around algorithm performance and reproducibility.
- Collaborated in a research-driven environment with biweekly readings and seminars, applying insights to hands-on experiments in computer vision and machine learning.

Lead AI/ML Intern

OBENTaS GLOBAL

Brikama, The Gambia

02/2024 – 02/2025

- Built a **music taste prediction system** using **Python**, **scikit-learn**, and **pandas**, modeling user preferences through supervised learning algorithms.
- Won April 2024 **Best Team Member** award.
- Conducted research on the implementation of an **e-learning platform**, focusing on user engagement, accessibility, and digital infrastructure in low-resource settings.
- Collaborated with fellow interns and engineers to integrate AI features into internal tools, while presenting findings and prototypes to executive staff.
- Represented OBENTaS at **The Gambia's Trade Fair 2024**, advertising technical services and engaging with stakeholders to promote local innovation.

ICT Club President | Lead Instructor

Nusrat High School

Serrekunda, The Gambia

07/2023 – 07/2024

- Led **150+** active members, organized inter-class competitions.
- **Raised GMD 10k+** for tech trips, co-founded **Coders Hub**, and held weekly meetings.
- Instructed **50+** students weekly on coding fundamentals, web development, MS Office, and GIMP for graphic design.
- Designed and delivered customized lesson plans to improve digital literacy and empower student-led innovation.

Keynote Speaker

Various Tech Events

The Gambia

03/2023 - Present

- Presented on **deepfake technology** at **Google DevFest Banjul 2024**, sharing insights on ethical AI and computer vision applications.
- Delivered keynote and STEM talks at **Nusrat Senior Secondary School**, inspiring 250+ students across clubs and career events.
- Showcased a **pneumonia detection model** built with Fastai at **UTG ICT Week 2025**.
- Regularly invited by tech clubs and institutions to speak on AI, student innovation, and navigating a self-taught tech journey.

Education

Bachelor of Computer Science

University of The Gambia

Faraba, The Gambia

03/2025 - 09/2029

- Major in Computer Science

Publications

- **LOWEL AI**: AI powered system using microscope and sensor data to detect waterborne bacteria in The Gambia. (Self-published, 2024)
- **Computer Vision for Crop Diseases**: Applied CV models to detect and classify diseases in Gambian farms. (Research Preprint, 2024)

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Mentorship

- **Student Mentor:** Provided 1:1 support to aspiring tech students, offering guidance on programming, ML fundamentals, and self-taught learning strategies. (2023 – Present)
- **ICT Club Instructor:** Taught coding, web development, and digital skills to 50+ high school students weekly, fostering a culture of tech exploration.

Others

- **Student, Smart Professional College (10/2021 – 07/2024):** Completed IC3 Digital Literacy Certification (Levels 1 & 2) in Computing, Key Applications, and Living Online (Certipoint & GMetrix).
- **Self-Taught Programmer, Independent Projects (2021 – 07/2024):** Built web-based tools including a Text-to-Speech generator for English exam practice; began coding in 9th grade.