FOSSO TIOFOUET Jospin Cabrel

CONTACT

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Physics teacher and Master's graduate in Artificial Intelligence, focused on **deep learning**, **Transformer architectures** and **explainable AI (XAI)**. My Master's thesis introduces **SEATTS, an explainability module for Transformer models applied to time series**; a scientific paper based on it is in preparation. Also a **full-stack developer** (Next.js, Python) who has designed and deployed several web platforms, and a secondary-school teacher for **more than five years**, which has given me a strong ability to explain and pass on complex ideas.

PROFESSIONAL EXPERIENCE

Full-Stack Developer (internship) — *Mo'ock*

Cameroon — **Dec. 2025 – present**

- Front-end and back-end development of web applications with Next.js, React.js and Node.js.
- UI integration and work on database models.
- Teamwork on group application projects, covering the whole development pipeline (Git, GitHub, GitLab, deployment on Render).
- Mentoring junior students: introducing them to software development and helping them through the points they find hard.

Skills: *Next.js, React.js, Node.js, databases, UI integration, Git, GitHub, GitLab, Render*

Physics Teacher — *Secondary education*

Dschang, Cameroon — **Dec. 2020 – present**

- Designing and teaching physics lessons, with regular marking of exercises and homework.
- Organising physics lab sessions.
- Form tutor: individual follow-up of each student, classroom management, class councils and report cards.
- Head of the school science club: sessions on major topics and figures in science, and regular chess games.
- National examinations: invigilation and marking.

Skills: *Teaching, knowledge transfer, science communication, physics, student supervision*

RESEARCH EXPERIENCE

Master's thesis — Explainable AI and time series — *University of Dschang*

Dschang, Cameroon — **Oct. 2025 – July 2026**

- Designed SEATTS, an explainability module placed at the output of Transformer models, and trained these models in PyTorch for time-series forecasting.
- Systematic comparison with the field's reference architectures: PatchTST, Informer, Autoformer and TFT.
- Explained forecasts through four original concepts (level, trend, context and calendar), using SHAP and attention maps.
- Results to be published in a scientific paper, currently in preparation.

Skills: *PyTorch, Transformers, SHAP, time series, Python*

EDUCATION

University of Dschang, Master's in Computer Science (Artificial Intelligence), Dschang, Cameroon, Oct. 2024 – July 2026

Ranked in the top five of the cohort, grade: Bien (A-).
In-depth study of deep learning, Transformer architectures and explainable AI (XAI).

University of Dschang, Bachelor's in Computer Science, Dschang, Cameroon, Oct. 2021 – July 2024
Ranked first in the cohort, grade: Bien (B+).

École Normale Supérieure de Yaoundé, DIPES II in Physics, Yaoundé, Cameroon, Oct. 2018 – July 2020
Upper-secondary teaching diploma (*Diplôme de Professeur de Lycée*), grade: Bien (B).
Official qualification to teach physics in upper secondary school.

University of Yaoundé I, Bachelor's in Physics, Mechanics option, Yaoundé, Cameroon, 2017 – 2018

École Normale Supérieure de Yaoundé, DIPES I in Physics, Yaoundé, Cameroon, Oct. 2015 – July 2018
Lower-secondary teaching diploma (*Diplôme de Professeur de Collège*), grade: Assez Bien (B-).
Official qualification to teach physics in lower secondary school.

ADDITIONAL TRAINING

Mo'ock Academy (private), Full-Stack Development, Dschang, Cameroon, July 2025 – Nov. 2025

Intensive professional training in front-end and back-end web development with the MERN stack (MongoDB, Express, React, Node.js).

ONLINE COURSES (CERTIFICATES OF COMPLETION)

Deep Learning with TensorFlow and Keras | MasterClass Python, Udemy, Sept. 2026

TensorFlow, Keras, deep learning.

Data Science and Machine Learning | MasterClass Python, Udemy, Dec. 2025
Python, classification, clustering, regression, model evaluation.

Python Backend Fundamentals with FastAPI and PostgreSQL, Udemy, Aug. 2025
Python, FastAPI, PostgreSQL.

PROJECTS

- **Educational platform for university students** (Next.js), 2024 – 2025 — Learning platform with online exercises and solutions: role-based architecture, mobile payment integration, complete design system, document database and rendering of mathematical content.
- **Mobile app for agricultural price forecasting** (machine learning), 2024 — Models forecasting price fluctuations of agricultural products, to help farmers plan their sales.
- **Student project management platform**, 2023 – 2024 — Academic application for collaborative tracking of student projects.
- **Parser for an algebraic language**, 2023 – 2024 — Academic project designing a parser for an algebraic language.

TECHNOLOGIES

- **Languages:** Python, JavaScript / TypeScript, C
- **Machine learning:** PyTorch, TensorFlow, Scikit-learn, Transformers (Hugging Face), Pandas, NumPy
- **Model interpretability:** SHAP, attention maps
- **Web development:** Next.js, React, Node.js, MySQL
- **Tools:** Git, Docker, Linux, JupyterLab, LaTeX

SKILLS

- **Domains:** deep learning, explainable AI (XAI), time-series forecasting, Transformer architectures, full-stack development
- **Transferable:** academic writing, teaching and science communication, independent research, teamwork

LANGUAGES

- **French:** native language and language of instruction
- **English:** intermediate, comfortable reading scientific literature

VOLUNTEERING AND INTERESTS

- **Volunteering:** “Smile For All Youths” (2024), CIBAEEVA orphanage (2023)
- **Interests:** chess, football, billiards, popular science reading