

N'guessan Maximin Frederic N'cho

PhD Candidate in Information Technology · AI/ML Engineer & Full-Stack Developer

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RESEARCH & PROFESSIONAL PROFILE

Computer engineer and PhD candidate in Information Technology at KIIT University (Bhubaneswar, India), working on Explainable AI for the early detection of diabetic retinopathy, combining deep learning architectures (CNNs, Vision Transformers) with interpretability methods (Grad-CAM, SHAP, LIME). Full-stack AI developer with hands-on experience across the entire pipeline, from model training to mobile and web deployment. Published researcher, co-author of a study on air quality analysis in India using machine learning. Runs an independent software studio (AnonymeCode&Design) delivering AI, web, and mobile products for clients.

EDUCATION

Doctor of Philosophy (PhD) in Information Technology

Aug 2025 - Present

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India

- Thesis: Explainable AI for Early Detection of Diabetic Retinopathy, combining CNN/ViT architectures with explainability techniques (Grad-CAM, SHAP, LIME).
- Supervisors: Dr. Saurabh Bilgaiyan (Principal Supervisor) and Dr. Santwana Sagnika (Co-Supervisor).

Master of Science (M.Sc.) in Computer Science

Aug 2023 - May 2025

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India

- Machine learning, intelligent systems, advanced algorithms, and data analysis.

Professional Bachelor's Degree (Licence Pro) in Software Engineering

Diploma issued Jun 2023

Groupe Cefiat, Abidjan-Plateau, Cote d'Ivoire

- Application development and software engineering fundamentals.

Higher Technician Certificate (BTS) in Computer Science

Diploma issued May 2023

Groupe Cefiat, Abidjan-Plateau, Cote d'Ivoire

- Application development, software architecture, project management.

Baccalaureat, Scientific Track (with honors)

Jul 2018

Lycee Moderne de Bonoua, Bonoua, Cote d'Ivoire

TECHNICAL SKILLS

Research	Machine Learning, Deep Learning, Explainable AI, Health Informatics, Environmental Monitoring, Data Science
Programming	Python, Dart (Flutter), Java, SQL, HTML/CSS, JavaScript
ML & Data	Scikit-learn, TensorFlow/Keras, Pandas, NumPy, Matplotlib, Jupyter Notebook
Backend & APIs	NestJS, FastAPI, REST APIs, Firebase, Android SDK
Mobile & Web	Flutter, Firebase, responsive web development
Databases	MySQL, MongoDB, SQLite, PostgreSQL (Prisma), Firebase Firestore
Tools	Git/GitHub, Docker, VS Code, Android Studio, Postman, Linux

SELECTED PROJECTS

AgroDiag / FruitDoc

2025 - Present

Full-stack mobile application for plant and fruit disease detection (personal project)

- Built end-to-end: Flutter mobile app, NestJS/FastAPI backend, PostgreSQL/Prisma database.
- Trained a TensorFlow/Keras EfficientNetB0 model on the PlantVillage dataset, reaching approximately 97.6% validation accuracy; tested on a physical Android device.
- Preparing publication on Google Play Console; designing freemium, B2B, and API-licensing monetization for public and private agricultural sector clients.

AnonymeCode&Design

2024 - Present

Freelance software studio, founder

- Independent studio delivering software engineering, AI/data analysis, cybersecurity, and digital product development for clients (anonymecodedesign.com).
- Delivered POUR ELLE, an e-commerce platform, and a corporate website for TUM Corporation (business consulting firm).
- Currently building Filivoire, a marketplace connecting crochet and artisanal creators with buyers.

PUBLICATIONS & RESEARCH

N'cho M.F., et al. (2023). Air Quality Data in India 2015-2020: A Machine Learning and AI-Based Analysis. Co-authored during the M.Sc. at KIIT. Available on Academia.edu and GitHub.

PROFESSIONAL EXPERIENCE

Back-Office Assistant

Dec 2021 - Aug 2023

ZIP Technologies et Services SARL (ZIP-CI), Cocody, Cote d'Ivoire

- Managed and tracked customer orders in the internal information system.
- Maintained product and inventory databases.
- Provided operational support to sales and logistics teams.
- Coordinated across internal departments and followed up on the MAKET e-commerce platform.

CERTIFICATIONS

Generative AI: Introduction and Applications

Sept 2024

IBM/Coursera

Prompt Engineering for ChatGPT

Sept 2024

Vanderbilt University/Coursera

Generative AI: Prompt Engineering Basics

Sept 2024

IBM/Coursera

LANGUAGES

French: Native (C2) | English: Working proficiency (Duolingo B1)

INTERESTS & ACTIVITIES

- Technology watch: AI, ML, and digital logistics innovation (arXiv, IEEE/ACM publications).
- Volunteer coding mentorship for students in web and mobile development.
- Sports: football, strength training.
- Intercultural experience: Cote d'Ivoire and India, cross-cultural adaptability.

ACADEMIC REFERENCES

Dr. Saurabh Bilgaiyan

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