

SEKOU DABO

AI RESEARCH ENGINEER

 +33 625 07 70 29 |  sekoudabo884@gmail.com |  4 Rue Frédéric Mistral, Thiais

 [linkedin](#) |  [portfolio](#)

ABOUT ME

I am an AI Research Engineer specializing in transparent, interpretable, and trustworthy AI solutions, as well as the design of lightweight and optimized models without compromising performance. My interests range from Explainable AI (xAI) to model compression and real-world deployment.

EDUCATION

- **2022 - 2024**

Casablanca - Maroc

Dissertation:

Coursework:

Research Methods:

M.Sc. in Data Science & Artificial Intelligence (Distinction),
University of Mundiapolis, Casablanca

Explainable AI-based Agritech for Sustainable Agroecology.

Explainable AI - Computer Vision - Hyperspectral Imaging

Literature review - Model benchmarking - Novel model development

- **2015-2020**

Franceville - Gabon

Dissertation:

Coursework

Research Methods:

B.Sc. in Mathematics & Computer Science, University of
Science & Technology of Masuku (USTM)

Emotions recognition

Machine Learning - Image Processing

Literature review - Model prototyping

- **2014-2015**

Libreville - Gabon

A-Level (French Baccalaureate) – Engineering Science,
National Technical High School Omar Bongo (LTNOB)

EXPERIENCE

- **1/2025 - Present**

Cergy - France

Project:

Contributions:

AI Research Engineer, ETIS Lab - CY Cergy Paris University

Explainable AI-based Agritech for Sustainable Agroecology.

Built a hyperparameter-tuning framework leveraging xAI insights -

• **4/2024 - 10/2024** **AI Research Intern**, ETIS Lab - CY Cergy Paris University
Cergy - France

Project:

Explainable AI-based Agritech for Sustainable Agroecology.

Contributions:

Developed a multiclass classifier on PRISMA data and compared xAI methods for consistency - Investigated advanced modeling techniques for explainability and interpretability - Contributed to prototype software for spectral/spatial attention modules - Contributed to new approaches for dimensionality reduction on hyperspectral data

• **2/2023 - 7/2023** **Data Scientist & Software developer Intern**, Trusted Energy
Cergy - France

Project:

Automated Power Factor Analysis for Industrial Equipment

Contributions:

Created data pipelines for energy usage monitoring and anomaly detection - Built an expert algorithm to pre-analyze power factor in machines and detect anomalies

• **2022 - 2024** **High School Mathematics Teacher**, Prépa le Reflet
Libreville - Gabon

Role:

Assisted struggling students in mathematics through tailored methodologies - Prepared them for final exams with improved conceptual understanding and confidence.

SKILLS

Technical Expertise

Building AI systems (Vision, Generative, Hybrid) | Agent paradigm ((Agent tools, LangChain) | Data mining and Indexation | SQL and NoSQL (Database)

Programming | Libraries | Frameworks

Depending project

Favorites: Python | C | java | Pytorch | Tensorflow | Agent tools | LangChain

Soft Skills

Communication | Creativity | Critical Thinking | Confidence | Adaptability

Language

French (Native -Bilingual) | English (Good reading and writing - conversational ability is limited)

ACTIVITIES

Football

Competitive player since age 10, represented MangaSport FC at U15 level for 3 years.

Currently I practice by opportunity

Basketball

Amateur level, recreational play