

# Sambou KONE

Sector 5, Mamaribougou Bougoudaba, Bamako, Mali West Africa

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Dual full time Bachelor's degree holder in Computer Science and Electronics & Communication passionate about Data Science and Machine Learning / Deep Learning with a focus on AI driven Data Solutions with strong motivation in Research on Human Computer Interaction / Computer Vision / Multimodal Computing.

**Skills: C/C++, Python, MATLAB, PyTorch, TensorFlow, BigQuery SQL.**

## EDUCATION

2020-2024 **BTech/ Electronics&Communication** (Batch Topper 3.64/4.00), Jain University - Bangalore

Final Project: 'Smart Battery Management Systems to Enhance Battery Life Based on Deep Learning'  
Supervisor: Dr. Sunil MP  
Submission: Proposed date – November 2023  
Research Methods: Deep learning models built in Python (Scikit-learn, TensorFlow) estimated SoC, SoH, and RUL with high accuracy. Evaluation using MAE, RMSE, and  $R^2$  showed clear improvements over traditional BMS method

2019-2020 **Master 1 (Non Degree)**, National School of Engineering ENI ABT Bamako - Mali

Final Project: 'Human Voice Recognition System Based on Feed Forward Neural Networks for Platforms'  
Supervisor: Dr. Abdoulaye Sidibe  
Research Methods: Python 3; NumPy/Librosa for DSP; PyTorch/TensorFlow + scikit-learn  
Human voice recognition was implemented in Python using PyTorch and Scikit-learn with feed-forward neural networks trained on MFCC/FBANK features. The system's performance was assessed through accuracy, F1-score, and Equal Error Rate (EER) compared to traditional methods..

2016-2019 **Bachelor Of Computer & Telecom Engineering**, National School of Engineering - Mali

Modules: SQL, Merise, HTML/CSS, UML, Java, User Interface Interaction  
Final Project: Student Management System Website using PHP/JS/HTML/CSS/Bootstrap.

## PROFESSIONAL EXPERIENCE

11/2024 – Present **Co Founder & CTO (Independant)**, Super DataInsights & AI Scientists Innovations- Bamako  
Vision-language models to extend capabilities by combining text and image analysis for deeper multimodal understanding. IoT and AI/ML research. Computer Vision Algorithms( ViT, DTFR), Aiming To Publish Academic Papers.

11/2024 – Present **Data Analyst - Full Time (Remote)**, ObjectWays Technologies - Chennai (Tamil Nadu).  
As a Data Analyst on the Amex SST annotation project, I was responsible for cleaning and pre-processing Speech-to-Text transcript files for French CCP (Customer Care) and CM (Card Member) interactions. BigQuery SQL and ETL processing (Dataform, Cloud Data Fusion, Apache Beam), Speech-To-Text (STT•French) data insights collection for ML accuracy Test.  
~ NLP tools : vTensorAct Studio+ Amazon SageMaker + Encord.  
Providing 90% accuracy for User (Card Member) and Customer Care Personnel (CCP) interaction monitoring for Banking Service Quality Improvement.

- 4/2023 – 10/2024      **Student Researcher** , Jain University - Bangalore.  
The research area also covers embedded system hardware (microcontrollers and FPGAs), digital signal/image processing, real-time intelligent systems systems, Smart Battery Management Systems for Autonomous Vehicles using Machine Learning.
- 10/2020 – 2/2022      **Network Systems Engineer Intern**, Celeste Telecom Mali Sarl- Bamako  
Assessed business communication needs and recommended PABX/VoIP solutions. Installed, configured, and upgraded network systems. Skilled in L2/L3 protocols (BGP, OSPF, EIGRP, RIP, VLAN, STP, VTP) and SD-WAN/SONiC. Managed and scaled networks with Cisco, Huawei, Netgate, and Fortinet

#### PUBLICATIONS ET PROJECT

- 2024      **‘SMART BATTERY MANAGEMENT SYSTEM FOR PORTABLE DEVICES TO ENHANCE BATTERY LIFE BASED ON MACHINE LEARNING’**  
april 24 |IJIRT|Volume 10 Issue 11|ISSN:2349-6002
- 2023      **‘COTTON WOOL DETECTION FOR DIABETIC RETHINOPATHY’**  
april 24, Minor Project Research at ECE department, Under Prof. Chethan GS

#### CONFERENCE AND SEMINAR PAPERS

- 2023      **‘Electronics And Communication Engineering - 2030 ’**. Held in march 2023 Presented at Jain University’s ECE Department Avalanche Club, Bangalore, the best presentation award.

#### ACADEMIC EXPERIENCE

- 2022 – Now      **Generative AI Tools Tutor**,  
LLMs, ChatGPT, Perplexity, DeepSeek. Gen AI automation and AI Agent Building over n8n, TensorAct. AI assisted Coding and Revision.
- 2020 – Now      **French Teacher Online**,  
As native French Speaker, I used to be part time French Tutor for A1,A2,B1,B2,C1, C2

#### ACTIVITIES

- 2019 – Present      **Social Charity Youth of Mamaribougou**  
Youth Charity Trust organization for widows and Orphan in Mali through donation of kits, food and welfare

#### SKILLS

- Languages      **English** and **French** (bilingual); **Spanish** (conversational); **Arabic** (Fluent); **Hindi** (Fluent).

#### REFERENCES

**Dr. Abdoulaye Sidibe**  
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