

Sambou KONE

Sector 5, Mamaribougou Bougoudaba, Bamako, Mali West Africa

samboukone99@gmail.com | +22377818701 | [Research Gate](#) | [Google Scholar](#) | [Academia](#)

Graduate specializing in Machine Learning and Deep Learning with a focus on Large Language Models. Skilled in fine-tuning and enhancing reasoning in transformer-based architectures, with strong motivation to pursue a Direct PhD advancing Deep Learning / LLMs research.

EDUCATION

2020-2024	BTech - Electronics and Communication (Topper 4.55/5.0), 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 (Topper)- Computer Science, 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 SCIENCE , National School of Engineering ENI ABT Bamako - Mali
Modules:	SQL, Merise, HTML/CSS, UML, Java, VoIP, 3G/4G, PHP, Linux.
Final Project:	Student Management System Website using PHP/JS/HTML/CSS/Bootstap.

PROFESSIONAL EXPERIENCE

11/2024 – Present	Co Founder & CTO (Independant) ,Super DataInsights & AI Scientists Innovations- Bamako Large language models enable intelligent automation, powering AI agents and conversational assistants. Vision-language models extend these capabilities by combining text and image analysis for deeper multimodal understanding. Transformers, Attention, Tokenization (BPE, SentencePiece), Embeddings, Fine-tuning (LoRA, PEFT), Prompt Engineering, RAG, RLHF, Perplexity, BLEU, ROUGE, Bias Mitigation, Privacy
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. My main objective was to label and annotate data while applying redaction and masking techniques to protect personal information. These efforts ensured high-quality datasets that improved machine learning model accuracy and supported the development of reliable AI solutions. I also collaborated closely with ML engineers to provide high-quality annotated datasets for model fitting and performance improvement.

- 4/2023 – 10/2024 **Business Development Intern** , BrightChamps Private Limited - Bangalore.
 Converted hot leads into closed deals, driving revenue growth; built strong client relationships to accelerate deal closure; identified high-potential prospects and successfully finalized sales. Deal with Middle East Region and UK customers
- 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
 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

CONFERENCE AND SEMINAR PAPERS
 2023 **‘Electronics And Communication Engineering - 2030 ’**. Held in march 2023 Presented at Jain University’s ECE Department Avalanche Club, Bangalore.

ACADEMIC EXPERIENCE
 2022 – Now **Generative AI Tools Tutor**,
 LLMs, ChatGPT, Perplexity, DeepSeek. Gen AI automation and AI Agent Buiding over n8n, tensorAct. AI assisted Coding and Revision.

2020 – Now **French Teacher Online**,
 As native French Speaker, used to be part time French Tutor for A1,A2,B1,B2,C1, C2 for kids majorly and adults as well.

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. SUNIL M P Department of Electronics & Communications Engineering JAIN University Bangalore, India +91 8762314253 mp.sunil@jainuniversity.ac.in	Dr. Pramod R Department of Electronics & Communications Engineering JAIN University Bangalore, India +91 9739163955 pramodr@jainuniversity.ac.in	Dr. Hamsa S Department of Electronics & Communications Engineering Jyothy Institute of Technology Bangalore, Indiai +919986284426 hamsa.s@jyothy.ac.in
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