SETHULAKSHMI BABU
M2 in Data and AI | Seeking interested internships from Feb 2026

Île-de-France | +33 7 80 79 07 52 | sethulakshmikb760@gmail.com | **Linkedin** |**Github** | **Portfolio**

EDUCATION

- Master's in engineering - Major: Data and AI | ongoing | ESILV Engineering School, Courbevoie
- Bachelor's in computer science | 2023 | Mahatma Gandhi University, Kottayam | 88.80%

ACADEMIC PROJECTS

- **Credit Card Fraud Detection** – Deployed real-time ML pipelines using **XGBoost**; **designed custom evaluation metrics** to maximize detection rate by focusing on cost-sensitive false negatives.
- **Smart Resume & Job Matcher (In Progress)**– Building an **LLM** pipeline with embeddings and **FAISS** for fast resume–job matching, including automated parsing, skill extraction, and vector-based retrieval
- **Prompt Engineering (Vertex AI)** – Engineered production-ready prompt pipelines on **Vertex AI** utilizing advanced Chain-of-Thought reasoning and function calling to enhance consistency and reliability of LLM outputs.
- **Clinical Diagnosis AI** – Developed a Random Forest model for infectious disease triage, strategically engineered for **high-sensitivity performance** to minimize high-stakes diagnostic errors. Demonstrated expertise in model integrity by rigorously applying enhanced preprocessing and strictly **preventing data leakage**.
- **Drone Health Guard** – Implemented an end-to-end ML pipeline using **Random Forest** for real-time sensor-level fault detection, enabling **predictive maintenance** through feature ranking.
  Hackathon participation: Presented this project at Hackathon held by ESILV and IBM

EXPERIENCE

Independent Author (Self-Published) | 2017–Present

• Managed full lifecycle production of multiple long-term creative projects, demonstrating high-level **autonomy**, resource planning, and **long-term project commitment**.

CERTIFICATIONS

- IBM watsonx.data Technical Essentials | 2025
- Getting Started with Generative AI | 2025
- Enablers Agile Methodology | 2024
- Ethical hacking | 2023 | Avodha Institute

SKILLS

Programming & Scripting: Python, SQL, Git, code documentation, unit testing
Machine Learning & AI: Supervised & unsupervised ML, feature engineering, model evaluation, anomaly/outlier detection, survival analysis basics, LLM fine-tuning, prompt engineering
Deep Learning & NLP / CV: TensorFlow, Keras, NLP (text extraction, embedding), Computer Vision (image analysis)
Data Engineering & Analytics: ETL pipelines, data preprocessing, EDA, statistical analysis, root-cause analysis, information extraction from documents
Tools & Infrastructure: Docker, CI/CD (GitHub Actions), version-controlled pipelines
Data Visualisation: Matplotlib/Seaborn/Plotly
Soft Skills: Analytical, proactive, detail-oriented, collaborative, problem-solver, good communicator, report writing

LANGUAGES

French – B1 | English – C1 | Malayalam – Native