



KALINDU CHATHURANGA

AI UNDERGRADUATE

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<https://www.kalinduchathuranga.dev/>

TECH SKILLS

- Python (Expert)
- Node js
- Typescript
- Data Structures
- Algorithms
- SQL, MySQL, MongoDB
- Machine Learning
- Generative AI

SOFT SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking



PROFILE

I am a third-year undergraduate specializing in Artificial Intelligence, with strong interests in machine learning and data science. I am passionate about using data-driven approaches to solve real-world problems and aspire to contribute to building a smarter, more intelligent world through the power of data.



EDUCATION

University of Moratuwa 2023-Present
B.Sc. (Hons) in Artificial Intelligence

Dambulla Central College 2015-2022
GCE Advance level (physical science): AAB
GCE Ordinary level: 8A's and 1B's



PROJECTS

Built Personal Banking Assistance JAN 2025 - JUN 2025
Developed a personal banking assistant capable of forecasting expenses, income, and balances for the next 30 days. Experimented with various time series forecasting models including TFT, Prophet, and LSTM to improve prediction accuracy. (in collaboration with **Zone 24*7 Inc**) [\[Link\]](#)

My role : Agentic chatbot with Open source llm (lamna),
Time series forecasting with TFT

Technologies Used: FastAPI, typescript, pytorch, ollama, langchain, chromaDB,

Fine-tuned LLM on Custom Dataset APRIL 2025 - MAY 2025
Fine-tuned a pre-trained large language model on financial data to improve response accuracy and relevance. Focused on optimizing prompt alignment and evaluation of model performance in specialized use cases. [\[Link\]](#)

Technologies Used: Hugging Face Transformers, PyTorch, Unsloth

LANGUAGES

- English
- Sinhala

INTERESTS

- Swimming
- Badminton
- Mystery Novels

CO-CURRICULAR

- Member -
Entrepreneurship Society,
UOM
- Member - Rotaract Club,
UOM

LANGUAGES

- English
- Sinhala



Agentic Chatbot for Travel Planning MARCH 2025 - MAY 2025

Developed an autonomous AI chatbot capable of handling dynamic user queries using multiple tools. Implemented agentic workflows for handling complex user queries with minimal human input. [\[Link\]](#)

Technologies Used: Langgraph, OpenAI API, Tool Integration, FastAPI



RAG Based Chat App JANUARY 2025 - APRIL 2025

Built a RAG-based chat application capable of querying structured and unstructured documents (PDF, DOCX, PPTX, XLSX, images) using LangChain and Docling. Integrated ChromaDB and MongoDB for storage and FastAPI/Streamlit for a responsive LLM-powered interface.

Technologies Used: FastAPI, Streamlit, ChromaDB, MongoDB, Langchain, docling



Student Score Prediction System JUNE 2025 - JULY 2025

Built an end-to-end machine learning project to predict student scores using XGBoost, Random Forest, Decision Trees, and other algorithms. Applied modular programming for production readiness. Deployed using Docker, CI/CD with GitHub Actions, and AWS (ECR & EC2). [\[Link\]](#)

Technologies Used: FastAPI, Docker, Github Action, AWS ECR, AWS EC2



Image Classification Using CNN JUNE 2025 - JULY 2025

Developing a breast cancer detection system using X-ray images. Implementing Convolutional Neural Networks (CNN) for image classification [\[Link\]](#)

Technologies Use: FastAPI, Mlflow, Docker, GitHub Actions, AWS ECR, AWS EC2



Urban Scene Object Detection and Dataset Engineering

Merged multiple public datasets (illegal parking, potholes, vandalism, garbage) into a unified YOLOv8 format. Automated class remapping, label standardization, and face/license plate anonymization for privacy compliance. [ongoing]

Technologies Use: YOLOv8, OpenCV, Roboflow, Pytorch



ACHIEVEMENTS



Completed the Neural Networks and Deep Learning certification from Coursera [\[Link\]](#)



Completed the Machine Learning Specialization certification from Coursera [\[Link\]](#)



Completed Full-Stack Web Development Bootcamp from Udemy [\[Link\]](#)