THAMINDU KULASEKARA

AI Undergraduate

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ABOUT ME

AI Undergraduate with a strong foundation in machine learning, software development, and embedded systems. Proficient in building and deploying intelligent applications using Python, TensorFlow, and React, with hands-on experience in IoT hardware integration using ESP32 and Arduino. Skilled in algorithm development, analytical thinking, and creating data-driven solutions. Passionate about innovating at the intersection of AI and IoT to build intelligent, interconnected systems.

EDUCATION

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

Dharmaraja College, Kandy   **2008 – 2022**
G.C.E. Advanced Level: Physical Science Stream - ABB (Z Score 1.6360)
G.C.E. Ordinary Level : 9 A passes

EXPERIENCE

People's Bank   **5 months**
Intern

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, Dart
AI & ML: Time-series, Prompt Engineering, LangChain, OpenCV, TensorFlow
Web and Mobile Development: React, Vite, Material UI, Tailwind CSS, FastAPI, Flutter
Databases: MySQL, MSSQL, MongoDB
Embedded Systems: Arduino, ESP32, PID Controlling
Project Management: ClickUp
Tools: GitHub, Git, Figma, Cisco Packet Tracer, Google Colab, Jupyter Notebook

SOFT SKILLS

- Leadership
- Project Management
- Critical Thinking

PROJECTS

Education Information Management & Decision Support System – *Group Project*   GitHub

- Developed an AI-powered educational platform with modules for academic management, auto-grading using Gemini LLM, behavioral analysis, and predictive insights using ML models.

- **Technologies:** React, FastAPI, MongoDB, Docker, AWS, Gemini LLM, XGBoost, SHAP, Scikit-learn, Linear Regression

- **Research Publications:** Conference:SLAAI-ICAI   Paper ID:103   (2025-present)

AI Curriculum Planner & Educational Agents [GitHub]

- Built a web application with multi-agent AI for personalized study plans, feedback, and question generation using LangChain and Gemini API.
- **Technologies:** FastAPI, React, Tailwind CSS, LangChain, Gemini API

Chronix - Active Time Tracker (Chrome Extension) [GitHub]

- Developed a productivity Chrome extension to track real-time tab usage with a modern UI and Manifest V3 APIs.
- **Technologies:** React, Tailwind CSS, Chrome Extension APIs

Juice App - Juice Selling App [GitHub]

- Created a mobile e-commerce app for juice ordering with Firebase authentication, real-time database, and secure APIs.
- **Technologies:** Flutter, Dart, Firebase Authentication, Firebase Realtime Database, REST APIs

Programming Helper Agent - AI-Powered Documentation Assistant [GitHub]

- Developed an intelligent documentation chatbot that dynamically ingests any web documentation to provide contextual Q&A responses.
- **Technologies:** Python, LangChain, FAISS, Groq LLM, Hugging Face embeddings

Urban Issue Classifier (Competition) [GitHub]

- Implemented a computer vision model to classify urban issue images with dataset balancing and anonymization preprocessing.
- **Technologies:** OpenCV, TensorFlow, Scikit-learn, Pandas, NumPy

Other projets

- Fast Line Follower Robot (Competition) [GitHub]
- Automatic Dehydrator System(1st year Hardware project) [GitHub]

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- President Scout, 1st Kandy Dharmaraja Scout Group (2019)
- Finalist at Datathon, CODEFEST 2025 organized by the Faculty of Computing, SLIIT. Team name: MLArtist
- IES LABS - Member (2025 – Present)
- IEEE RAS Student Branch - Media & Marketing Committee (2024 – Present)

CERTIFICATIONS

- Machine Learning (Introduction, Time Series, Feature Engineering, Intermediate) – Kaggle
- LangChain for LLM Application Development & ChatGPT Prompt Engineering for Developers – Deeplearning.AI
- Intro to Deep Learning (Ongoing) & Computer Vision (Ongoing) – Kaggle

REFERENCES

Professor (Mrs) Thushari Silva
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