

# Thamindu Kulasekara

ARTIFICIAL INTELLIGENCE UNDERGRADUATE

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[Linkedin](#)

[Github](#)

## Profile Summary

AI Undergraduate passionate about Artificial Intelligence, Machine Learning, and Data Science. Skilled in Python, TensorFlow, and Scikit-learn, with experience in developing predictive models, data analysis, and AI-driven applications. Strong understanding of algorithm design, feature engineering, and data visualization. Experienced in building intelligent systems that combine analytics, automation, and real-world problem-solving. Eager to apply technical and analytical skills to drive data-driven insights and innovation

## Education

**B.Sc (Hons) in Artificial Intelligence** 2023 – present

**University of Moratuwa** - CGPA: 3.38 (out of 4.0)

**Dharmaraja College, Kandy | Physical Science** 2008 - 2022

- G.C.E. Advanced Level : 1 A pass & 2 B passes in physical science stream (Z Score - 1.636)
- G.C.E. Ordinary Level : 9 A passes.

## Technical Skills

- **Languages** – Python, Java, Javascript, C, C++, PHP, Dart
- **AI & ML**– Time-series, Prompt Engineering, OpenCV, TensorFlow, Langchain, Lang Graph
- **Web and Mobile Development** – React, Vite, Material UI, Tailwind CSS, FastAPI, Flutter
- **Database** – MySQL, MSSQL, MongoDB, Vector Databases(Faiss)
- **Project Management** – ClickUp
- **Tools** – Github, Git, Figma, Cisco Packet Tracer, Google Colab, Jupyter Notebook

## 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, Gemini LLM, XGBoost, SHAP, Scikit-learn, Linear Regression
- **Research Publications:** Conference:SLAAI-ICAI Paper ID:103 (2025-present)

## EdumentorAI-AI based 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

## 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, RAG

## 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

## 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

## Chronix – Active time tracker V2.0.0 (Chrome web extension)

[Live](#)

- 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

## Other projects

- Fast Line Follower Robot (Competition)

[Github](#)

- Automatic Dehydrator System(1st year Hardware project )

[Github](#)

## Experience

People's Bank -intern

5 months

## 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)

## Reference

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