



# THAMINDU KULASEKARA

AI Undergraduate

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## ABOUT ME

An AI undergraduate with a solid foundation in machine learning, software development, and data-driven problem-solving. Passionate about building intelligent, interconnected systems that leverage both AI and IoT to drive innovation and solve real-world challenges. Proficient in algorithm development and analytical thinking, with strong teamwork and communication skills. A motivated, detail-oriented learner, always eager to master new technologies and explore advancements at the intersection of AI and IoT.

## EDUCATION

- University of Moratuwa** 2023-Present  
B.Sc. (Hons) in Artificial Intelligence
- Dharmaraja College Kandy** 2008 - 2022  
G.C.E A/L: Physical Science Stream - ABB - Z Score - 1.6360

## EXPERIENCE

People's Bank Intern 5 months

## TECHNICAL SKILLS

- Languages** – Python, Java, Javascript, C, Dart
- AI & ML** - Time-series, Prompt engineering, Langchain, OpenCV, TensorFlow
- Web and mobile Development** – React, Vite, MaterialUI, Tailwind CSS, FastAPI, Flutter
- Database** – 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

- Project Management
- Creativity
- Problem Solving

## 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, LinearRegression**

- 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**
- Automatic Dehydrator System – Hardware Project

[GitHub](#)

  - Designed an automated food dehydrator integrating temperature, humidity, and gas sensors with real-time monitoring and safety alerts.
  - Technologies: **ESP32, Arduino, DS18B20, MQ-02, DHT22, PTC Heating Element**
- 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**
- Fast Line Follower Robot (Competition)

[GitHub](#)

  - Built an autonomous speed line-following robot with a precision motor control.
  - Technologies: **ESP32, TB6612FNG, N20 Motors**
- 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**
- 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**

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- President Scout, 1<sup>st</sup> 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

REFERENCE

<b>Professor (Mrs) Thushari Silva</b> <ul style="list-style-type: none"><li>Professor in Artificial Intelligence</li><li>Department of Computational Mathematics</li><li>University of Moratuwa</li><li>Email - thusharip@uom.lk</li><li>Phone-+9476 878 4572</li></ul>	<b>Ms.Uvini Matara Arachchi</b> <ul style="list-style-type: none"><li>Senior Business Analyst (Zone24x7)</li><li>Email - uvinim@zone24x7.com</li></ul>
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