

KAVINDU MIHIRANGA

MACHINE LEARNING ENGINEER

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[@LinkedIn](#) | [@GitHub](#)

Computer Science undergraduate (BSc Hons) at the University of Westminister (IIT Sri Lanka) with 1 year of industry experience in mobile and frontend development. Passionate about Machine Learning and AI, with hands-on project experience in intelligent systems, deep learning, and data-driven app integrations. Skilled in Python, Flutter, TensorFlow, and React. Actively seeking machine learning roles to apply technical and problem-solving skills in impactful ways.

PROFESSIONAL EXPERIENCE

Software Engineer

June 2024 - June 2025

Fintelext Pvt Ltd — June 2024 to June 2025

Technologies: Flutter, React, Figma

- Spearheaded the design and development of a cross-platform mobile application from concept to deployment, delivering a scalable solution under senior supervision.
- Engineered high-performance Flutter components with responsive UI and custom animations, improving user engagement and app speed.
- Led React-based frontend integration and implemented reusable components to streamline development cycles and ensure design consistency.
- Conducted UX testing and collaborated closely with designers using Figma to iterate on user flows, increasing usability and accessibility.
- Participated in agile sprints, contributed to code reviews, and maintained CI-ready, testable code for long-term scalability.

TECHNICAL PROJECTS

Domestic Violence Detection System - Python, TensorFlow, Firebase, Node.js, Flutter

- Designed and deployed a mobile safety solution that discreetly detects violent audio patterns using a TensorFlow model and triggers automated recording and location logging. Integrated with Firebase for authentication and data storage, and Google Drive for secure evidence backup. Promotes real-time incident response and legal support through smart ML deployment.

Resume Analyzer - Python, scikit-learn, NLP

- Designed an NLP-based resume evaluation tool to match resumes against job descriptions using keyword extraction and cosine similarity. Delivered improvement suggestions based on content gaps.

Movie Recommendation System - Python, pandas, scikit-learn

- Built a collaborative filtering recommendation engine trained on user-rating data. Enhanced model accuracy through matrix factorization and RMSE evaluation.

Shopping Management System - Java, Swing

- Built a desktop inventory system enabling shopkeepers to manage product data, calculate discounts, and track stock efficiently via a Java Swing GUI. Designed for both administrative and customer interactions.

Theatre Ticket Booking System - Java, JavaFX

- Developed a theatre booking platform with seat reservation, availability visualization, and custom seat-sorting algorithms. Integrated file I/O operations and interactive UI with JavaFX.

Credits Calculation System - Python

- Engineered an academic progression system to assess university credit outcomes, track pass/fail status, and store student data using structured dictionaries.

EDUCATION

University of Westminster (at IIT Sri Lanka)
BSc (Hons) in Computer Science - 2022–Present
(Expected Graduation: 2026)

Richmond College, Galle
High School Diploma — 2011–2020

- A/L Results (2021–22):
Physical Science Stream
3 B's
- O/L Results (2017):
8 A's and 1 C pass

ADDITIONAL INFORMATION

- **Languages:** English, Sinhala, Tamil
- **Certifications:**
 - HackerRank Certificate for SQL(Basics)
 - HackerRank Certificate for SQL(Intermediate)
 - HackerRank Certificate for Java(Basics)
 - HackerRank Certificate for Python(Basics)
 - HackerRank Certificate for JavaScript(Basics)
 - Participate in Problem Solving International Hackathon (2024)
 - Participate in IEEEExtreme 17.0 (2023)
- **Extra Curricular Activities:**
 - Volunteer Web Developer, Cutting Edge 23
 - Swimming Team Member, Richmond College
 - Chess Club Member, Richmond College
- **Soft Skills:**
 - Time Management | Strong Teamwork | Adaptability | Problem-Solving | Critical Thinking | Effective Communication
- **Hobbies:**
 - Drawing | Swimming | E-sports | Creating and Design Websites | Travelling

REFERENCES

U.N. Mallawarachchi

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National Planning Department,
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Colombo 1.

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