

Ishara Madushan

AI/ML Engineer | Full-Stack Developer

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SUMMARY

BSc (Hons) in Information Technology (SLIIT), specialized in IT with strong hands-on experience in **AI/ML** and **Full-Stack** development. Results-driven and creative engineer specializing in **Full-Stack Web Development** and **AI/ML Engineering**. Experienced in designing data-driven, cloud-ready, and user-centered solutions using **Next.js**, **TypeScript**, **Python**, **TensorFlow**, and **Node.js**. Adept at collaborating in agile teams to deliver secure, scalable products—from intelligent web apps to analytics dashboards. Passionate about transforming complex ideas into impactful, production-grade systems.

TECHNICAL SKILLS

Programming: JavaScript (ES6+), TypeScript, Python, Java, SQL, HTML, CSS

Frontend: Next.js, React, Tailwind CSS, Bootstrap, Material UI

Backend: Node.js, Express, RESTful APIs, JWT Auth, Firebase

AI/ML & Data: TensorFlow, PyTorch, OpenCV, scikit-learn, data preprocessing, model deployment

Databases: MongoDB, MySQL, Firestore

DevOps & Cloud: Docker, Vercel, AWS CloudShell, CI/CD, Postman, Git/GitHub

Core: Full-Stack development, API integration, ML pipelines, system design, agile collaboration

EXPERIENCE

Software Engineering Trainee

Jul 2024 – Jul 2025

SKYREK (Pvt) Ltd — Colombo (Remote)

- Contributed to web and mobile development using the MERN stack and Kotlin in an agile environment.
- Implemented AI modules with TensorFlow and OpenCV for image classification and automation.
- Improved scalability and reliability by integrating real-time APIs and cloud-based services.

PROJECTS

Leads Management App — Facebook & Google Ads Dashboard

2025

Full-Stack Web Application (Next.js, React, TypeScript, Tailwind, MongoDB)

- Centralized dashboard for managing ad campaigns and leads with real-time metrics and automation.
- Implemented secure authentication (JWT), data filtering, CSV export, and webhook integrations.
- Designed MongoDB schemas; built a responsive UI with charts, notifications, and analytics.
- **My Role:** Full-stack design and implementation—API architecture, data modeling, deployment.

Speakraft — AI-Powered Virtual Trainer for Presentation Skills (Web Application)

2025

AI & Web Application

- AI-driven coaching platform to improve presentation delivery using NLP and motion/signal analytics.
- **My Role:** Designed the *Object & Environment Identification* module to track **speaking rate**, **pauses**, **breathing**, and **pacing curve**, providing instant feedback via a modal UI.

(Arutha) — Sign Language Learning App

2024

Mobile App Development (AI Integration)

- Sinhala/English sign-language learning with gesture recognition and voice prompts.
- Image-based letter detection using OpenCV and TensorFlow Lite for Android.

Hot Kitchen — Online Food Ordering System (MERN Stack)

2023

Web Application

- Supplier and order management with secure JWT authentication.
- Optimized backend APIs, improving data load speed by 30%.

Dayata Saviya — Economic Support Android App

2023

Mobile Development (Kotlin & Firebase)

- Financial aid and transport ticket booking app for low-income communities.

- Firebase authentication, document uploads, and live data sync.

EventPOP.lk — Online Event Management System

2022

Web Application (Java Servlets)

- Admin and user modules for event scheduling, participant management, and email alerts.

Spark.lk — Bill & Event Management Platform

2021

Web Application (HTML, CSS, JavaScript, PHP, SQL)

- Event booking and billing portal hosted on XAMPP.

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)

Malabe, Sri Lanka

BSc (Hons) Information Technology — Specialization in Information Technology

2021 – 2025

CERTIFICATIONS

Front-End Web Development using JavaScript and React.js

Microsoft Learn Student Ambassador

Android Application Development

Advanced SQL

Managing AWS with CloudShell

REFERENCES

Mr. Samantha Rajapakshe — Lecturer, Faculty of Computing, SLIIT

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Ms. Dinuka Wijendra — Lecturer, Faculty of Computing, SLIIT

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