

Curriculum Vitae

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Career Objective

AI Engineer and Full-Stack Developer with hands-on experience in **machine learning, intelligent systems, SaaS platforms, and real-world AI applications**. Adept at developing solutions that merge **AI innovation with scalable web technologies**, from healthcare systems and robotics to SaaS automation and global mapping tools. Skilled in **automation, server management, and end-to-end product development**, with a strong drive to solve impactful problems through AI.

Education

B.Sc. in Artificial Intelligence (Undergraduate)

University of Moratuwa

Professional Experience

Part-Time Full Stack Developer

Feb 2024 – Present

- Developed and deployed multiple SaaS and AI-powered applications for clients and personal ventures.
- Designed **AI Blog Automation System** with advanced web crawling and **Retrieval-Augmented Generation (RAG)** for content generation.
- Built a **SaaS AI Review Analyzer** to detect Google Review Policy violations on Google My Business (GMB) profiles.
- Contributed to a **World Deforestation Map with AI features**, integrating geospatial data analysis and visualization.
- Delivered end-to-end solutions, from system architecture and server management to frontend and backend development.
- Extensive hands-on experience in **automation pipelines, API integrations, database management, and scalable deployments**.

Technical Skills

- **Programming:** Python, C, JavaScript, SQL
 - **AI/ML:** PyTorch, TensorFlow, Scikit-learn, RAG Pipelines, Google Vertex AI, OpenAI API
 - **Web Development:** Next.js, React, Tailwind CSS, ShadCN/UI, Supabase (PostgreSQL)
 - **Automation & Systems:** Web Crawling, Task Automation, Server Management (Linux, VPS, Cloud), Deployment Pipelines
 - **Robotics & IoT:** ESP32, mmWave Sensors (LD2450), Embedded Systems, IoT Prototyping
 - **Tools & Platforms:** Git, Jupyter Notebook, OBS, Supabase, Docker
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Projects & Research

AI & SaaS Applications

- **AI Blog Automation with RAG & Crawling** – Automated blog generation system that scrapes web data, processes it, and generates optimized articles with Retrieval-Augmented Generation.
- **AI Review Analyzer (SaaS)** – SaaS platform to detect **Google Review Policy violations** on Google My Business profiles, helping businesses stay compliant.
- **Global Deforestation Map (In Progress)** – Building an AI-powered global visualization tool for tracking and predicting deforestation trends.
- **Chronic Kidney Disease Prediction** – Built ML models to predict CKD using medical + lifestyle data, with preprocessing, feature engineering, and performance optimization.
- **Rain Prediction Model** - Developed a rain prediction ML Model to predict rain with over 90% accuracy

Robotics & IoT Prototypes

- **Smart Flow Fan (Updated Version)** – One-axis rotatable fan using **LD2450 mmWave sensor** for human tracking, dual ESP32 setup, voice/manual/auto control, and humidity-based speed adjustment.
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Leadership & Extracurricular

- **Assistant IT Director, Rotaract Club of University of Moratuwa (2024–2025)**
 - Managed IT systems, digital platforms, and event tech infrastructure.
 - Engaged in partnership pitching and organizational leadership.

- Active contributor to projects and technical event coordination in many clubs and societies.
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Achievements

- Built and launched multiple **AI SaaS tools** with real-world applications.
- Developed intelligent IoT prototypes featured in academic and hackathon projects.
- Extensive **hands-on experience in automation, server management, and web-scale deployments**.
- Successfully merged **AI with practical applications** in healthcare, robotics, environment, and business intelligence.