

Lakindu Pahesara

Developer, data scientist, founder of CEYLAI Labs

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PROFILE

Data scientist and developer with paid client work since 2022. Founder and client lead of CEYLAI Labs, a Sri Lankan software, web and AI studio serving clients in the EU, UK and US. I build LLM agents with tool-enforced grounding, medical imaging models and fast web products, and I report results with their error bars.

EDUCATION

BSc (Hons) Data Science, University of Plymouth, delivered via NSBM Green University 2026
Second Class Upper. Final-year work: a dual-model stroke triage system (EfficientNet-B0 on CT, mean AUC 0.9878; MONAI 3D U-Net on MRI) and a Sinhala and English wellness chatbot on a QLoRA-tuned Qwen2.5-7B.

EXPERIENCE

Founder and client lead, CEYLAI Labs Present
Wins the work and reviews every delivery; a build team works to The House Standard, a written quality bar applied to every project. Eleven builds in the studio register, including ventures, client websites and a call centre prototype. Packaged a WhatsApp commerce agent that answers in English, Sinhala, Tamil and Singlish as a service for small businesses.

Freelance web and app developer 2022 to present
Paid client delivery throughout the degree: websites, web apps, document engines and AI automation.

SELECTED PROJECTS

AI-Powered Stroke Emergency Triage System. Two medical imaging models, one on CT and one on MRI, combined into a single triage decision that shows its evidence and exports a clinical-style PDF report.

PyTorch, MONAI, EfficientNet-B0, 3D U-Net, Grad-CAM, FastAPI, React, Tailwind CSS, ReportLab

Bilingual Mental Wellness Chatbot. Supportive conversation in Sinhala and English from a locally hosted, QLoRA-tuned Qwen2.5-7B, with a deterministic safety route that bypasses the model for high-risk messages.

Qwen2.5-7B-Instruct, QLoRA, PEFT, TRL, Ollama, GGUF Q4_K_M, RoBERTa GoEmotions, FastAPI, React, TypeScript, SQLite

Multilingual WhatsApp Commerce Agent. A WhatsApp agent that answers shop customers in English, Sinhala, Tamil and Singlish, and can only quote what the product catalogue says.

Node.js, Meta WhatsApp Cloud API, Claude Haiku 4.5, Tool use

Invoice and Quotation Engine for Pehesara Engineers. A phone-first app that produces invoices and quotations indistinguishable from the company letterhead, and every PDF it makes can be opened again for editing.

Python 3.12, Streamlit, ReportLab, Carliot

CEYLAI Labs: studio and identity. A Sri Lankan software, web and AI studio built around one mark, a drop that is also the island, and one quality standard applied to every build.

Brand system, Positioning, The House Standard, Astro

RATNADEEPA Gem Dealer Showcase. A dark vault of a website where every stone is shown under two lights, D65 daylight and 2800 K tungsten, because that is how dealers actually judge colour.

HTML, CSS, JavaScript, SVG

Infinity Consulting Rebuild. A consulting firm's website rebuilt from a 1.77 MB homepage with a blocked hero image to about 125 kB, with a pre-launch checklist that caught what the old site never had.

Astro, Static HTML, Self-hosted fonts, AVIF

CAPABILITIES

AI and data: LLM agents with tool-enforced grounding (deep), Dashboards and data apps (deep), Deep learning in PyTorch (working), Medical imaging: classification and segmentation (working), LLM fine-tuning with QLoRA, local inference (working), Explainability: Grad-CAM, lesion masks (working), RAG and MLOps (learning).

Web and product: Next.js and React (deep), Node.js services and APIs (deep), Streamlit and ReportLab document engines (deep), Performance and Core Web Vitals (deep), FastAPI services (working), Technical SEO and structured data (working), Native mobile apps (learning).

Brand and growth: Identity systems (deep), Design standards and QA (deep), Go-to-market for small businesses (working), Content and short-form scripts (working), Social growth for new sectors (learning).