

# ASANKA WIJESOORIYA

## AI ENGINEER (INTERN)

Colombo, Sri Lanka | [+94764501405](tel:+94764501405) | [ramwijesooriya@gmail.com](mailto:ramwijesooriya@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## SUMMARY

Software Engineering undergraduate proficient in Generative AI (RAG) and MLOps. Experienced in building production-ready AI applications using **Python**, **LangChain**, **FastAPI**, and **Docker**. Seeking a challenging AI Engineering Internship.

## PROJECTS

### House Price Predictor – End-to-End MLOps Platform | [GitHub](#) | [Link](#)

(Python | Flask | React | Docker | AWS EC2 | GitHub Actions)

Production-grade full stack AI application using React and Flask, served via Nginx for real-time property value predictions. Containerized the entire architecture with Docker and implemented a 100% automated CI/CD pipeline. Orchestrated GitHub Actions for image builds and configured Watchtower on AWS EC2 for zero-downtime continuous deployment.

### Sales Forecasting AI – Time Series Analysis Platform | [Link](#)

(Python | Flask | Facebook Prophet | Pandas | HTML/CSS)

Developed a predictive analytics web application utilizing the Facebook Prophet model for high-precision time-series sales forecasting. Engineered a robust Flask backend to manage serialized models (.pkl) and process custom date-range predictions. Designed a clean, interactive interface to visualize sales trends, directly supporting retail analytics and business intelligence decision-making.

### Smart Shop AI Assistant – SaaS RAG E-commerce Platform | [GitHub](#)

(Python | FastAPI | LangChain | Google Gemini | Pinecone | Redis | Docker)

Engineered a production-ready RAG chatbot utilizing LangChain and Google Gemini to intelligently route queries between structured inventory data and semantic policy search (Pinecone). Built a high-performance FastAPI backend implementing Redis-based rate limiting (Token Bucket) to secure API endpoints. Containerized the entire multi-tenant architecture using Docker to ensure scalable and consistent deployment.

### AI Image Generator Web App | [GitHub](#) | [Link](#)

(Next.js 15 | TypeScript | Tailwind CSS | Shadcn UI | AI API)

Developed a modern AI-powered image generation app with a sleek, responsive UI using Next.js App Router and Shadcn UI components. Integrated a free AI API for real-time image generation based on user prompts. Implemented TypeScript for type safety and scalable development. Designed an intuitive UX with Tailwind CSS and deployed the production-ready application for public access.

## CERTIFICATES AND ACHIEVEMENTS

The Complete Full-Stack Web Development Bootcamp on Udemy | [Certificate](#)

DevOps Beginners to Advanced with Projects | [Certificate](#)

Generative AI: Prompt Engineering Basics | [Certificate](#)

## EDUCATION

Sabaragamuwa University of Sri Lanka – Belihuloya, Sri Lanka

B.Sc. (Hons) in Software Engineering – Expected Graduation, 2026

Related Coursework: Data Structures & Algorithms, Object-Oriented Programming, Web Development, Database Management, Software Engineering Principles, Machine Learning, Artificial Intelligence, Computer Networks

## TECHNICAL SKILLS

**Languages & Core** : Python (Advanced), SQL, C++, JavaScript, TypeScript

**AI & Machine Learning** : PyTorch, TensorFlow, LangChain, Scikit-learn, OpenCV, Hugging Face Transformers

**Data & Databases** : Vector Databases (Pinecone/ChromaDB), MongoDB, PostgreSQL, Pandas, NumPy

**MLOps & Cloud** : Docker, Kubernetes, AWS Azure(SageMaker/EC2), Git/GitHub Actions

**Web Integration** : FastAPI, Flask, React.js, Next.js, REST APIs

## ACTIVITIES AND LEADERSHIP

### IEEE Student Branch – Sabaragamuwa University of Sri Lanka

Technical Team Member | 2023 – Present

Actively contribute to IEEE programs by supporting technical teams, organizing workshops, hackathons, and student-focused events, while engaging in AI and innovation sessions to strengthen problem-solving skills.

### Zero Plastic Initiative

Team Member | 2024

Collaborated with peers to promote the “0 Plastic Initiative,” participating in event planning, awareness campaigns, and providing technical support to advance environmental sustainability.

### Field Visits to Leading Software Companies

Participant | 2023 – Present

Visited companies including WSO2 and Creative Software to gain firsthand exposure to industry practices, learning about software development processes, cloud computing, and professional workflows.

### Hackathons & University Projects

Participant&TeamCollaborator|2023 – Present

Engaged in hackathons and academic projects to solve real-world problems through collaborative coding, teambased software development, and exploration of emerging AI technologies.

## NON-RELATED REFERENCES

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