

Lakshika Waruni

AI Engineer | Machine Learning Engineer

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PROFESSIONAL SUMMARY

AI Engineer with 3+ years of experience building machine learning, NLP, and computer vision solutions for fintech, logistics, and SaaS products. Skilled in Python, PyTorch, TensorFlow, FastAPI, SQL, Docker, Azure, and AWS. Strong practical background in transforming business requirements into production-ready AI services with measurable outcomes.

CORE TECHNICAL SKILLS

Python | PyTorch | TensorFlow | Scikit-learn | FastAPI | LangChain | Hugging Face | OpenCV | PostgreSQL | Docker | AWS SageMaker | Azure AI Services

PROFESSIONAL EXPERIENCE

AI Engineer - Ceylon Analytics Solutions, Colombo

Feb 2023 - Present

Built demand forecasting models for retail clients using XGBoost and LSTM, improving forecast accuracy by 21%.

Developed REST APIs with FastAPI to serve fraud-detection models for transaction scoring.

Implemented vector search based document Q&A using embeddings, FAISS, and Azure OpenAI APIs.

Collaborated with QA and backend teams to deploy models through Docker-based CI/CD pipelines.

Technologies - Selenium, Cypress, Playwright

Junior Machine Learning Engineer - LankaFin Tech Labs, Colombo

Aug 2021 - Jan 2023

Created customer churn prediction models using logistic regression, random forest, and gradient boosting.

Designed reusable data preprocessing pipelines for missing-value handling, encoding, scaling, and feature selection.

Prepared model evaluation reports with precision, recall, F1-score, ROC-AUC, and business impact analysis.

Technologies - Selenium, Cypress, Playwright, Manual testing

SELECTED AI PROJECTS

Invoice Intelligence Platform

Developed an OCR and NLP pipeline to extract supplier, amount, tax, and due-date fields from Sri Lankan invoice formats.

Sinhala-English Support Bot

Created a multilingual chatbot using transformer embeddings and retrieval augmented generation for support knowledge bases.

EDUCATION

BSc (Hons) in Computer Science - University of Colombo School of Computing, 2021

G.C.E. Advanced Level - Physical Science Stream, Royal College, Colombo

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals

DeepLearning.AI Machine Learning Specialization

AWS Cloud Practitioner Essentials

TOOLS & PRACTICES

ML.Ops basics, model versioning, experiment tracking

API integration, Agile delivery, technical documentation

Model evaluation, error analysis, monitoring, retraining

LANGUAGES

English - Professional Working Proficiency

Sinhala - Native

REFERENCES

Available upon request.

Dummy CV generated for sample use. All personal details are fictional.