# 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.

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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

**MLOps 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.