Amaya Wickramasinghe

Machine Learning Engineer | AI Solutions Developer

Galle, Sri Lanka | +94776241496 | aceronline95+test6@gmail.com | LinkedIn: linkedin.com/in/amaya-wickramasinghe-ml | GitHub: github.com/amaya-w-ml | Portfolio: | amayawickramasinghe.dev

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PROFESSIONAL SUMMARY

Machine Learning Engineer experienced in building predictive analytics, recommendation engines, anomaly detection, and MLOps workflows. Skilled in Python, Scikit-learn, TensorFlow, cloud deployment, data pipelines, and stakeholder communication. Passionate about creating reliable AI solutions that improve operational efficiency.

CORE TECHNICAL SKILLS

Python | Scikit-learn | TensorFlow | XGBoost | Airflow | MLflow | Pandas | NumPy | SQL Server | **FastAPI | Docker | Azure ML**

PROFESSIONAL EXPERIENCE

Machine Learning Engineer – DataPulse Innovations, Colombo

Jan 2023 – Present

Developed predictive maintenance models for manufacturing clients using sensor and maintenance history data.

Implemented MLflow experiment tracking to improve reproducibility across model training cycles.

Built anomaly detection workflows for operational dashboards and automated alerts.

Business Intelligence & ML Analyst – Southern Digital Services, Galle

Sep 2021 – Dec 2022

Created SQL and Python pipelines for sales, inventory, and customer analytics.

Built recommendation logic for product bundles based on transaction patterns.

Presented model insights and dashboard findings to non-technical business stakeholders.

SELECTED AI PROJECTS

Retail Recommendation Engine

Designed a hybrid recommendation system using collaborative filtering and product metadata.

Energy Usage Forecasting

Created time-series forecasting models to estimate monthly electricity usage for commercial buildings.

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EDUCATION

BSc (Hons) in Information Technology – University of Moratuwa, 2021

G.C.E. Advanced Level – Combined Mathematics Stream, Southlands College, Galle

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate

MLflow Fundamentals

Databricks Lakehouse Fundamentals

TOOLS & PRACTICES

MLOps basics, model versioning, experiment tracking

API integration, Agile delivery, technical documentation

Model evaluation, error analysis, monitoring, retraining

LANGUAGES

English – Fluent

Sinhala – Native

REFERENCES

Available upon request.

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

Personal information

Date of birth – 1997.05.26

Nationality – Sri Lankan