

Lahiru Jayakodi

Machine Learning Engineer

+94703625220

✉ lahiruprabhath099@gmail.com

📍 163/74, Vimukthi Mawataha, Malabe

🌐 [Lahiru Jayakodi](#)

🔄 [Lahiru Jayakodi](#)



TECHNICAL SKILLS

Programming Languages

- Python
- JavaScript
- SQL
- RUST

ML/AI Skills

- PyTorch
- Tensorflow
- Machine Learning
- Computer vision
- Deep Learning
- NLP / LLM
- Langchain
- RAG
- Vector Databases
- Scipy
- Scikit-Learn
- Pyspark

Tools and Services

- Git / GitHub
- Databricks
- AWS
- Postman

Backend Development

- Node.js
- FLASK
- REST API
- MySQL
- Docker

Other

- OOP
- Data Structure & Algorithms
- Statistics

PROFILE

I am a results-driven Machine Learning Engineer with almost 1 year of experience. I specialize in developing sophisticated machine learning models and solutions. With a solid background in Electrical and Electronics Engineering, I am equipped with the technical prowess to tackle complex challenges. My true passion lies in leveraging technology to make a meaningful impact on organizations and their objectives.

WORK EXPERIENCES

Associate ML Engineer

📅 02/2023 - Present

ILabs (Pvt) Ltd.

ILABS is a US based company mainly running on E-business and SEO services. My role involves developing and managing churn and propensity machine learning models for **SEPHORA**, handling big data using tools like PySpark and Databricks, building conversational AI chatbots, and fine-tuning LLM-based models for analyzing customer reviews and chats in marketing campaigns, utilising technologies such as PyTorch, langchain, and Rasa-Bot, along with expertise in SQL and vector databases, within the context of Sephora's business operations.

Machine Learning Engineer - Intern

📅 11/2022 - 02/2023

Ceylon Agro Food Technologies

CAFT is an agricultural research and development company utilizing modern engineering and IT techniques in the agricultural field. My role specializes in agricultural-based research and employs computer vision technologies such as YOLO, MASK-RCNN, and CNN for automated engineering projects.

Freelancer

📅 2020 - 2023

Fiverr

Started the career journey as a freelancer having enormous experience by collaborating with developer teams and business teams by working as a backend developer and ML developer in projects related to E-commerce, ML, Trading, Object detection, NLP etc.

EDUCATION

BSc (Hons) Electrical and Electronics Engineering

Faculty of Engineering - South Eastern University of Sri Lanka (IESL accredited)

Including Data Structures and Algorithms, Computer Science, Operating Systems, Digital Electronics, Communication Systems, Mechatronic Applications, Power Systems, Control Systems, Electromagnetics, Electronic System Designing, Digital System Design, and Robotics.

G.C.E Advanced Level

A/Niwaththakachethiya National School, Anuradhapura

Studied in the Physical Science stream and passed with 3 B's.

PERSONAL SKILLS

- Leadership
- Team Work
- Adaptability
- Time Management
- Analytical Skills
- Fast Learning
- Positive Attitude

EXTRACURRICULAR ACTIVITIES

- Student Member of (IEEE)
- Student Member of
Institute of Engineers Sri
Lanka (IESL)
- Junior Treasurer - Faculty
Union
- Player of University Cricket
Team
- Member of AGNI EDGE
Media Unit Faculty of
Engineering, SEUSL
- Member of AGNI SENSE
Club

REFERENCES

Prof. M.A.L.A. Haleem
Dean,
Faculty of Engineering,
South Eastern University
Mobile :+94767241063
Email : mala_haleem@seu.ac.lk

Dr. P.M.K. Alahakoon
Senior Lecturer (Grade I),
Dept. of Electrical and
Telecommunication Engineering,
Faculty of Engineering,
South Eastern University of Sri
Lanka
+94718649622
mahinda@seu.ac.lk

PROJECTS

ANPR VEHICLE VIOLATION



https://github.com/codeoxygen/vehicle_ANPR.git

A computer vision system that detects vehicle license plate numbers for those who make road violations. High speed, Illegal lane crossing, etc.

Open-CV | YOLO | paddleOCR | Python | JavaScript | FLASK

DOCUCHAT



<https://github.com/codeoxygen/DocuChat.git>

AI Chabot allows users to upload their own multiple PDFs. The model builds a custom knowledge base based on the user content. And they can ask any questions about pdfs and bot return answers. LLM techniques were used.

Python | OPENAI | HUGGING FACE | Langchain | Streamlit | FLASK

MICRO EMOTION DETECTION

University final year research. Investigating Micro-Emotion Recognition System using Deep Learning and Creating a Sri Lankan Micro-Expression Dataset. Published a research paper in IEEE.

3D- CNN | Video Classification | Tensorflow | Open-CV

GOOGLE PLACES API DATA EXTRACTION SEARCH BOT



<https://github.com/codeoxygen/google-places-data-extraction.git>

Data engineering project. Building Python script to extract a variety of data from Google Maps related to similar businesses and ready to compare.

Python | Selenium | beautiful soup | Google API

HOUSE PRICE PREDICTION REGRESSION



<https://github.com/codeoxygen/House-price-prediction-regression.git>

Predict house prices based on variety of property features. Important for Real-state businesses to predefine house prices as a fair and profitable way.

SK-Learn | Matplotlib | Python

PINTEREST PRODUCT RECOMMENDATION SYSTEM



https://github.com/codeoxygen/pinterest_recommendation_system.git

A system that recommends technical products from Pinterest according to the user keywords. The system returns technical products from Pinterest. Allows users to select the most interesting products. Then recommend more products from Pinterest. Visual-based similarity measurement techniques were used.

Python | VGG16 | Tensorflow | Scikit-Learn

PUBLICATIONS

Creating a Sri Lankan Micro-Emotion Dataset for a Robust Micro-Expression Recognition System

<https://ieeexplore.ieee.org/document/9905127>