



## Dilusha Madushan

UNDERGRADUATE OF MORATUWA  
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## PROFILE

Enthusiastic Undergraduate in Computer Science & Engineering, specializing in Machine Learning and Data Science. Skilled in both Machine Learning and Web Development, I excel at creating innovative and user-friendly solutions by combining these two powerful technologies. Eager to apply my comprehensive skill set in real-world applications, pushing the boundaries of what's possible in the tech landscape

## EXPERIENCE

### Part-Time Machine Learning & Software Engineer

Jul 2023 - Oct 2023

#### CML Insights Inc.

Python | Dask | Kubeflow | Go | PostgreSQL

- Applied expertise in Python and Go to ongoing machine learning projects.
- Enhanced existing ML pipelines with Dask, improving memory efficiency with parallel computing.

### Machine Learning & Software Engineer Intern

Jan 2023 - Jun 2023

#### CML Insights Inc.

Python | Kubeflow | Go | PostgreSQL | GCP

- Trained as a Machine Learning & Software Engineer, working extensively with Python and Go.
- Implemented machine learning workflows using Kubeflow.
- Worked on back-end development using Go and PostgreSQL.
- Worked with cloud-based services on the Google Cloud Platform (GCP).

## EDUCATION

### BSc Eng. Hons (UG)

Jan 2020 - present

#### Dept. of Computer Science & Engineering, University of Moratuwa

- Specialized in Data Science and Machine Learning Engineering.
- Current SGPA of 3.83 out of a maximum of 4.2

### Aquinas English Diploma

Sep 2018 - Jun 2019

#### Aquinas Institute/ Colombo

- Post Graduated in Basic English language.
- Gained extensive training and successfully accomplished the Diploma.

### G.C.E Advanced Level

#### Examination

Jan 2016 - Aug 2018

#### Maris Stella College Negombo

- Done in Mathematical Stream
- 3 A passes in Mathematics, Physics & Chemistry with district Rank 32

### G.C.E Ordinary Level

#### Examination

Jan 2014 - Dec 2015

#### Maris Stella College Negombo

- 8 A passes including math and science

## TECHNOLOGIES

Java	MySQL
Python	MongoDB
Golang	Firebase
PHP	PostgreSQL
Node.js	PowerBI
Springboot	Scikit-Learn
Flask	TensorFlow
React.js	Spark

## SKILLS

### Project Management



### Leadership



### Problem Solving



### Web Developing



### Data Analyzing



### Data Modeling



## LANGUAGES

### Sinhala



### English



## PROJECTS

### Blockchain Extendible On-chain Analysis Framework

Sep 2023 - present

Python | Go | React.js | Avalanche

- An open-source SaaS platform for analyzing blockchain data, starting with Avalanche and expanding to Bitcoin.
- The framework comprises three key components, responsible for ETL of blockchain data and enabling user interaction with processed data.

### Bitcoin Anomaly Analysis

Sep 2023 - present

Python | Scikit-Learn | Bitcoin

- Analyzed Bitcoin transaction data to identify illicit addresses, using labeled data from the BABD-13 dataset.
- Developed a machine learning solution to classify addresses based on statistical information from their transaction history.

### Customer Churn Analyzing & Prediction

Feb 2022 - Jul 2022

Python | Streamlet | Scikit-Learn | Plotly Express | Pandas

- Predicted customer churn for Chatterbox Telco using machine learning.
- Created an interactive dashboard for analysis with Streamlit and Plotly.

### Docship

Sep 2021 - Dec 2021

PHP | Bootstrap | HTML | MySQL

- This project is done for introduce online consulting platform any patient to consult any doctor they like.
- The project follows standard MVC structure without any frameworks.

### HR Management System

Feb 2022 - Apr 2021

Node | React.js | MySQL

- This project is done to handle the resources both human and things in a company or organization.
- The project follows the MVC structure on the back-end side.
- Involved in back-end development with Node.js & mysql

### NSIS Student Management System (2021)

May 2021 - Sep 2021

SpringBoot | Java | Node.js | MySQL | AWS

- This is a currently running school student management system in Negombo South International School Network's Piliyandala branch.
- This system contains a sub-system for displaying student personal information for student parents and for that system, this works as REST API.
- Worked on Development in back-end with Spring boot & mysql

## INTERESTS

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Machine & Deep Learning

Big Data Analytics

Web3 Development

Web Development

## REFERENCES

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### Dr. Sapumal Ahangama

Senior Lecturer  
Dept. of Computer Science & Engineering  
Faculty of Engineering, University of Moratuwa, Sri Lanka.

[sapumal@cse.mrt.ac.lk](mailto:sapumal@cse.mrt.ac.lk)

### Imantha Ahangama

Machine Learning Engineering Lead  
CML Insight Inc.

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## CERTIFICATES

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### AWS Academy Data Engineering

Oct 2023 - Dec 2023

AWS Training and Certification

- Certification is issued by Pearson (UK),

### Web3 and Blockchain Fundamentals

Dec 2023

Coursera

- Acquired knowledge in Web3 and Blockchain

### Generative AI with Large Language Models

Dec 2023

Coursera

- Acquired knowledge in Generative AI and Large Language Models (LLMs), focusing on fundamentals and real-world application deployment.

## RESEARCH PAPERS

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### Customer Churn Prediction(2022)

[link](#)

- A comparison of the performance of different machine learning models to foresee the customer churn is presented in this paper

## MINI PROJECTS

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### Unet Brain-MRI-Segmentation (2022)

Python | TensorFlow | Kaggle

- Developed a Brain MRI tumor detection model using Kaggle's segmentation dataset, classifying each pixel for tumor presence.

### DeFiChainApp (2023)

Motoko | ICP | DeFi

- A project focusing on DeFi application development using Motoko on the Internet Computer platform