



## Dilusha Madushan

UNDERGRADUATE OF MORATUWA  
UNIVERSITY, SRI LANKA

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## PROFILE

I am seeking for a leading organization which offers me a good training, challenges and incentives that will utilize my skills, knowledge and experiences to reflect my contribution in providing an excellent service towards achieving the organizational goals.

## 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

- Undergraduate 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

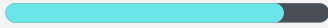
#### Aquinas Institute/ Colombo

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

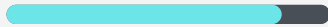
## TECHNOLOGIES

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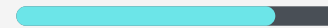
Java



Python



Golang



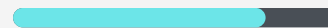
PHP



Node js



Springboot



Flask



React js



MySQL



MongoDB



Firebase



PowerBI



TensorFlow



Spark



## G.C.E Adavanced 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

## PROJECTS

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### 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

### 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 bakc-end development with Node js & mysql

### Docship

Sep 2021 - Dec 2021

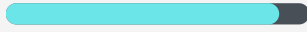
PHP | Bootstrap | HTML | MySQL

- 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.

## SKILLS

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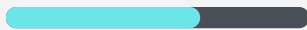
### Project Management



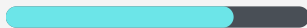
### Leadership



### Problem Solving



### Web Developing



### Data Analyzing



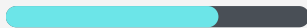
### Data Modeling



## LANGUAGES

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### Sinhala



### English



## INTERESTS

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### Machine & Deep Learning

### Big Data Analytics

### Web3 Development

### Web Development

## 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.

## InsurePro - Vehicle Insurance Analyzer

Sep 2022 - Dec 2022

Python | Scikit-Learn | React js | Firebase

- Analyzed key factors influencing client decisions for vehicle insurance, building a predictive model.
- Developed an interactive dashboard using React JS and JavaScript chart libraries for data visualization.

## Blockchain Extendible On- chain Analysis Framework

Sep 2023 - current

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 - current

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.

## CERTIFICATES

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## Data Science Challenge from Dialog Axiata(2021)

Jan 2021 - Mar 2021

- A certification offered by University of Moratuwa with Dialog Axiata on a data science challenge

## REFERENCES

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### Dr. Sapumal Ahangama

Senior Lecturer  
Dept. of Computer Science & Engineering  
Faculty of Engineering, University of Moratuwa, Sri Lanka.  
[buddhika@cse.mrt.ac.lk](mailto:buddhika@cse.mrt.ac.lk)

### Imantha Ahangama

Machine Learning Engineering Lead  
CML Insight Inc.  
[imantha.ahangama@gmail.com](mailto:imantha.ahangama@gmail.com)

### Assured Diploma in Information Technology (DiTEC)

Sep 2018 - Dec 2018

ESOFT/Negmbo

- Certification is issued by Pearson (UK),

### AWS Academy Data Engineering Oct 2023 - Dec 2023

AWS Training and Certification

- Certification is issued by Pearson (UK),

### 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.

## PUBLICATIONS

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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