# Dilshan Deshapriya Perera

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**Fresh engineering graduate from University of Moratuwa, Sri Lanka** with strong analytical skills and leadership qualities who is passionate about **Machine Learning, Data Science, AI, Data Analysis and Data Engineering**

## TECHNICAL PROJECTS

### Boston Housing Price Prediction Model
- Built a multivariate linear regression model to predict housing prices based on Boston, USA housing dataset using scikit-learn and pandas

### Iris Plant Species Classification Model
- Built a multivariate classification model to classify iris plant species based on scikit-learn iris plant dataset using scikit-learn, pandas and knn method

### Win Probability Prediction of a Dice Rolling Game
- Used hacker statistics to find the probability of winning a bet on dice rolling game using random number generators, loops and matplotlib

### K-means Clustering Model to Classify Wine Type
- Built a multi-feature clustering model to group wine type based on scikit-learn wine dataset using scikit-learn, pandas, numpy and k-means method

### Exploratory Analysis on Netflix Dataset
- Exploratory analysis on Netflix dataset to investigate if Netflix movies are getting shorter in duration over years using pandas and matplotlib

### Titanic Survivor Prediction Model
- Building (in progress) logistic regression model to predict survivors based on Titanic passenger dataset using pandas and matplotlib

## WORK EXPERIENCE

### Machine Learning Engineer: Grass Karma, Australia
Nov 2022 - Present
- Building autonomous mowing robots to optimize lawn mowing of natural strips (Contribution-based project)

### Intern: Transmission Construction Projects, CEB
April 2021 - May 2021
- Designed switchyard design after inspecting using AutoCAD
- Designed transmission line and tower design using PLS CADD

### Intern: BELA International (Pvt) Ltd, Colombo and worksite at fuel farm, BIA
October 2020 - April 2021
- Modified lighting system design for fuel farm of BIA using DIALux
- Assisted with the project: Development and upgrading of fuel hydrant system at BIA

## LEADERSHIP AND VOLUNTEERING

### Batch Representative, Dept of Electrical Engineering
- Represented 100 students of Department of Electrical Engineering, University of Moratuwa

### Clubs and Societies
- Representative, IESL student chapter, University of Moratuwa
- In charge of school affairs, OREPA student chapter
- Member of Rotaract Club (University of Moratuwa), IESL, EESoc (University of Moratuwa), RCU, Art Circle (Royal College), OSU charity orgs and Api charity org

## EDUCATION

### B.Sc. Engineering (Electrical)
- University of Moratuwa, Sri Lanka (2017 - Present)
- 3.2/4.2 GPA, Sem 6 Dean's List

### G.C.E A/Level
- Royal College, Colombo (2008-2016)
- AAB with 2.01 Z score

### Online Courses
- Data Science (Sololearn)
- Intermediate Machine Learning (Kaggle)
- Python for Data Science (Sololearn)
- Data Visualization (Kaggle)
- Supervised Learning with scikit-learn (DataCamp)
- Basics of Machine Learning (Great Learning)
- Intro to Machine Learning (Kaggle)
- Introduction to Neural Network (Great Learning)
- Pandas (Kaggle)
- Data Manipulation with Pandas (DataCamp)
- Joining Data with Pandas (DataCamp)
- SQL (Sololearn)
- Python Core (Sololearn)
- Intermediate Python (DataCamp)
- Intermediate Python (Sololearn)
- Python and Flask Demonstrations (Udemy)
- Python Data Structures (Sololearn)
- Python for Beginners (University of Moratuwa)
- Python for Beginners (Sololearn)
- Introduction to Python (DataCamp)
- Intro to Programming (Kaggle)
- Web Design for Beginners (University of Moratuwa)
- Django for Beginners (Programming with Mosh)
- Java Programming Fundamentals (Udemy)
- Java (Sololearn)
- DevOps Fundamentals (Udemy)
- Hardware and Software (Wytech (Pvt) Ltd)

**In progress**
- Machine Learning (Sololearn)
- Feature Engineering (Kaggle)
- Python for Data Visualization (LinkedIn Learning)
- Unsupervised Learning in Python (DataCamp)
- HTML (Sololearn)
- React + Redux (Sololearn)
- C++ (Sololearn)