

# Dilshan Deshapriya Perera

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

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## 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)
- Basics of Machine Learning (Great Learning)
- Intro to Machine Learning (Kaggle)
- Introduction to Neural Network (Great Learning)
- Pandas (Kaggle)
- Data Manipulation 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)
- Data Visualization (Kaggle)
- Python for Data Visualization (LinkedIn Learning)
- Joining Data with Pandas (DataCamp)
- HTML (Sololearn)
- React + Redux (Sololearn)
- C++ (Sololearn)