

# Dilshan 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

### **AI Engineer: Analog Inference, USA**

Dec 2022 - Present

- ML development and optimization for power efficient analog chips

### **Machine Learning Engineer: Grass Karma, Australia**

Nov 2022 - Dec 2022

- 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
- OREPA student chapter, Rotaract Club (University of Moratuwa)

## 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**

- Deep Learning with PyTorch (DataCamp)
- Intermediate Machine Learning (Kaggle)
- Unsupervised Learning in Python (DataCamp)
- Data Visualization (Kaggle)
- Supervised Learning with scikit-learn (DataCamp)
- Python for Data Science (Sololearn)
- Machine Learning with Tree-Based Models in Python (DataCamp)
- Data Science (Sololearn)
- Extreme Gradient Boosting with XGBoost (DataCamp)
- Linear Classifiers in Python (DataCamp)
- Cluster Analysis in Python (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)