DILSHAN DESHAPRIYA PERERA

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ABOUT ME

Fresh engineering graduate from University of Moratuwa, Sri Lanka looking for opportunities in computer science industry to gain experience while contributing maximum for the company

EDUCATION

University of Moratuwa, Sri Lanka
B.Sc. Engineering Honours Degree 2017 - Present

- Electrical Engineering Major
- CGPA: 3.2/4.2, Dean's List: Semester 6
- Related Modules: Programming Fundamentals, Visual Programming, Computer Systems and Graph Theory

Royal College, Colombo, Sri Lanka
G.C.E. Advanced Level & G.C.E. Ordinary Level 2008 - 2016

- G.C.E. Advanced Level Examination Results: AAB, 2.01 Z score, 179th District Rank (Colombo), 617th Island Rank, Physical Science Stream (Pure and Applied Mathematics, Physics, Chemistry)
- G.C.E Ordinary Level Examination Results: 9 Distinctions
- 4 Time Class 1st Prize Winner, 9 Time Subject 1st Prize Winner (3 for Information Technology)

Self Learning
Online Course Completion Certificates 2022 - Present

- Python: Intermediate Python Course (Sololearn), Python Core Course (Sololearn), Python and Flask Demonstrations Practice Course (Udemy), Python Data Structures Course (Sololearn), Python for Beginners Course (University of Moratuwa), Python (Basic) Certificate (HackerRank), Python for Beginners Course (Sololearn), Intro to Programming (Kaggle), Introduction to Python (DataCamp), Intermediate Python (DataCamp)
- Machine Learning and Data Science: Machine Learning Course (Sololearn 26% complete), Basics of Machine Learning (Great Learning), Python for Data Science Course (Sololearn), Introduction to Neural Network (Great Learning), Data Science (Sololearn 29% complete)
- Web Development: Web Design for Beginners Course (University of Moratuwa), HTML Course (Sololearn 32% complete), React + Redux Course (Sololearn 30% complete), Django Tutorial for Beginners (Programming with Mosh), Python and Flask Demonstrations Practice Course (Udemy)
- Other: Database Management: SQL Course (Sololearn), Java Programming Fundamentals Course (Udemy), Java Course (Sololearn), DevOps Fundamentals Course (Udemy), C++ Course (Sololearn 21% complete), Hardware and Software Course (Wytech (Pvt) Ltd)

WORK EXPERIENCE

Transmission Construction Projects Branch, Ceylon Electricity Board, Nugegoda, Sri Lanka
Electrical Engineering Intern 2021 - 2021

Bela International (Pvt) Ltd, Colombo, Sri Lanka
Electrical Engineering Intern   2020 - 2021

Fuel Farm, Bandaranaike International Airport, Katunayake, Sri Lanka
Electrical Engineering Intern   2020 - 2021

SKILLS

Language skills
- English, Sinhala

Intermediate knowledge on:
- Python, MySQL, HTML5, Visual Studio Code, IntelliJ IDEA, PyCharms, Code Blocks, JupyterLab, Jupyter Notebook, GitHub

I have worked with:
- C++, CSS3, JavaScript, Django, Flask, Git, Git Bash, MATLAB, Arduino, Visual Basic, C, React, Redux, PowerShell, Anaconda, SQLite, SQLAlchemy, Java

PROJECTS

A Novel Controller for Virtual Synchronous Generator with Energy Storage System to Improve Power System Inertia
- This is the final year group project for the module 'Design Project'. Project was supervised by Dr. Asanka Rodrigo. This project involves a MATLAB Simulink model to simulate how a virtual inertia system can improve the stability of a power system which has high renewable energy penetration during a disturbance using energy storage

Speed Detector Using Arduino and Infrared Sensors
- This is a group project done for the module 'Engineering Design'. We designed an Arduino model to calculate speed of a moving object with the use of infrared sensors

Development and Upgrading of Fuel Hydrant System at Bandaranaike International Airport
- This project is done by Bela International (Pvt) Ltd and WEC. During my internship period I was involved with this project and contributed with some designs, calculations and reports

Computer Shop Webpage Design
- This is a simple webpage design for the course 'Web Design for Beginners' conducted by Department of Computer Science Engineering, University of Moratuwa. I used HTML, CSS and JavaScript for this project

Calculator with History
- This is a calculator program developed for the course 'Python for Beginners' conducted by Department of Computer Science Engineering, University of Moratuwa. I used Python for this project

Titanic Survivor Prediction: Logistic Regression Machine Learning Model
- This project is related to Sololearn Machine Learning course. This is a supervised machine learning model based on titanic passenger data. Here, creating the model for given data, predicting results and scoring the model is done using scikit-learn.

Boston Housing Price Prediction - Linear Regression Machine Learning Model
- This project is related to Sololearn Data Science course. This is a supervised machine learning model based on Boston, USA housing price data. I use scikit-learn and pandas to build this model.

Iris Plant Species Prediction - Classification Machine Learning Model
- This is a classification ML model based on scikit-learn iris plant dataset. I used sklean, pandas and knn method to for this model.

Using hacker statistics to find the probability of winning a bet on dice rolling game

- Using hacker statistics to check the probability of winning a bet on dice rolling game. I used random number generators, loops and matplotlib to reach a result of 78.4% using 500 random walks.

Exploratory analysis to investigate if Netflix movies are getting shorter in duration over years

- Exploratory analysis to investigate if Netflix movies are getting shorter in duration over years. Short movies and TV shows were filtered, and different colors were used for different genres under 60 minutes. I used pandas and matplotlib for this analysis

For more projects: https://github.com/dilshvn

LEADERSHIP AND VOLUNTEERING

Batch Representative, Department of Electrical Engineering, University of Moratuwa

- The communication line between academic staff, administration and 100 students in the department was maintained. Involved with coordinating a lot of Department and University events (Helakam Kala, We Are With You, Inauguration of 18th Batch, etc)

Representative, IESL (The Institution of Engineers Sri Lanka) Student Chapter, University of Moratuwa

In charge of School Affairs, Committee Member and Project Chairman, OREPA (Old Royalists Engineering Professionals' Association) Student Chapter

Member of Rotaract Club, University of Moratuwa

- Involved with projects (Grama Probodaya, Zooxanthellae, etc)

Treasurer, OSU Charity Organization

Member of IESL (The Institution of Engineers Sri Lanka), EESoc (Electrical Engineering Society) of University of Moratuwa, RCU (Royal College Union), 'Api' Charity Organization, Royal College Art Circle

REFERENCES

Dr. Ravi Wijesiriwardana

- Senior Lecturer Grade I, University of Moratuwa, Sri Lanka
- rwijesiriwardana@uom.lk, +94 71 150 9320

Dr. Thushara Rathnayake

- Senior Lecturer Grade I, University of Moratuwa, Sri Lanka
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