AYESH VININDA

AI ENTHUSIAST | WEB DEVELOPER

CONTACT ME

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●●● https://medium.com/@ayeshgk

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SKILLS

Skill	Level
Java	●●●●
Python	●●●●
PHP	●●●●
JavaScript	●●●●
C++	●●
Node	●●●●
Next.js	●●●●
React	●●●●
Flask	●●●●
FastAPI	●●●●
Spring Boot	●●●
MySQL	●●●●
MongoDB	●●●●
Firebase	●●●●
TensorFlow	●●●●
PyTorch	●●
PowerBI	●●●●
PySpark	●●
Databricks	●
Docker	●●●●
Kubernetes	●

ABOUT ME

I am a programming geek, who always thinks the only way to discover my limits is to go beyond the impossible. I am highly interested in Artificial Intelligence, Deeplearning and web development areas. I am a final year undergraduate student studying in the Department of Computer Science and Engineering at the University of Moratuwa.

EDUCATION

2020-present

University of Moratuwa
BSc in Computer Science & Engineering
Currently a final year undergraduate with a 3.76 GPA. Dean list in semester 1,2,3,4 and 6.

2018-2019

IJSE| Institute of Software Engineering
Diploma in Comprehensive Master Java Developer.

2009-2018

Mahinda College
School education up to A/L
Got 3 A passes in A/L including Mathematics ,Physics and Chemistry.

WORK EXPERIENCE   Jan 2023 - June 2023

AI & Software Engineering Intern
@ Kingslake Engineering Systems / Sri Lanka

- Contributed to the development of a Fashion Similarity Detection System for the garment industry, applying Deep Neural Network approaches.
- Auto Route Planning project for Transport Management System.
- Restructuring KingslakeBlue Access Management System.
- Contributing Database design of Newer Transport Management System.

FYP - RESEARCH   July 2023- present

Novel Approach to Generate Multi Line Patches

The ongoing leading research project in Automated program repair domain focuses on automate bug fixing in programs by multi line patch generation. Research is addressing 3 key limitations in existing APR domain by proposing novel transformer based approach. It solves challenge of identifying partial patch correctness, providing all buggy lines in the same context and capturing semantic dependencies between generated patches.

SEMESTER PROJECTS

API Gateway Monitoring System   Aug 2022 - Dec 2023

API Gateway performance monitoring system, integrated with anomaly detection models with comprehensive web based application to understand valuable insights, system behaviours and potential issues.Combining tailored anomaly detection models for diverse parameter sets, implementing a cross-feature analysis to enhance accuracy.

Parkinson Disease Detection System Apr 2022 - Jul 2022

Parkinson Disease Detection System, utilizing machine learning within a web application to diagnose Parkinson disease in the community using hand-drawn images. Flask RESTAPI used to featuring machine learning model for detecting disease. Engineered Node.js application for handling disease detection connecting with the MySQL database through the Prisma ORM.

Banking System   Jan 2022 - Jul 2022

Developed a comprehensive banking web application using Node.js, Express and MySQL for consistent functionality across all bank branches and customer interactions. Project applied advanced SQL queries, events, triggers and transactions considering optimized data management. System managed various user registrations and roles within the system, incorporating automated handling of Fixed Deposits.

Customer Churn Dashboard   Jan 2022 - Jul 2022

Development of a Customer Churn Dashboard designed to empower company managers with valuable insights for strategic decision-making. PowerBI, an embedded interactive dashboard used to analyze customer attrition with predictions. Additionally, system consist with Firebase authentication and Firestore to manage decisions.

Clinical Trial Management System   Sep 2021 - Dec 2021

Clinical Trial Management System is a web application for pharmaceutical companies to manage clinical trial processes efficiently. Utilizing PHP and MySQL, the system ensures consistent data management, tracking, and collaboration throughout the entire clinical trial lifecycle.

OTHER PROJECTS

Vehicle Rental Service System   Sep 2021 - Dec 2021

Contributed to the development of web application for a vehicle rental service, with frontend responsibilities using React.

Audirea - Music generator

Developed a music-generator, utilizing deep learning techniques with LSTM in TensorFlow.

- Used ESAC folksongs dataset which has krn files
- Applying preprocessing steps convert krn text into same time interval sequence data.
- Implement RNN model using tensorflow LSTM layers.

Dumbbell bicep curl detection

- Simple program to detect one hand bicep curl using OpenCV and mediapipe.
- Identify correct movement for the bicep curl showing the hand position as stage.
- Counts the repetitions and display it.

Sep 2021 - Dec 2021

Web application for vehicle rental service