Thanushraam Sureshkumar

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Education

Sri Ramachandra Institute of Higher Education and Research **2020 – 2024(Expected)**
Bachelor of Technology in CSE in Artificial Intelligence and Machine Learning *Chennai, Tamil Nadu*
CGPA : 9 (Till 4th Semester)

Experience

Research Intern **January 2022 – March 2022**
Sri Ramachandra Institute of Higher Education and Research

- Mined the traffic pattern using PrefixSpan and improved its efficiency and created new algorithm called TT_PrefixSpan which displays 10% more efficient pattern than before.
- Implemented LSTM model and integrated it with dashboard in order to interact with users for city traffic analysis.
- Implemented dashboard using Plotly,Streamlit, HTML, CSS, JS, and Folium for maps.
- Researched and analyzed city traffic patterns.

Backend Developer **November 2019 – Present**
Garuda Technologies

- Design, Develop and Deliver database design for the given mobile/web application.
- Developed backend for the application features such as sending mail, collecting user data using Python's Django.
- Developed functional mobile applications using Flutter.
- Deployed the applications in AWS,Azure and in other shared hosting servers.

Projects

License Plate Recognition in Raspberry Pi | *Python,TensorFlow,Open CV,Linux* **September 2021**

- Implemented license plate recognition using Open CV.
- Controlled Servo motors using Raspberry Pi.
- Implemented the license plate recognition in Raspberry Pi along with controlling motors.

Crop Prediction using Machine Learning Application | *Python , Flutter , Machine Learning* **April 2021**

- This is a mobile and web application to predict,which crop to yield depending on the given location.
- Mobile Application is developed using Flutter and Web App is developed using HTML/CSS and JS.
- The Naïve Bayes ML model is used in this application to predict crop. The current location and Temperature is retrieved using OpenWeatherMap's API.

Vehicle Counting and Classification | *Open CV, Python* **Dec 2022**

- Implementing YOLO model for object detection
- Implementing DeepSORT mode for object tracking
- Using dlib correlation tracker to count the vehicles and integrate all the models and recreating the video with vehicle counter

Medicare Mobile Application | *Flutter,Django,React,Nodejs* **January 2022**

- This is a virtual doctor patient interactive application that features appointment booking, ambulance calling, and video consulting with the doctors, these are all implemented using Django and Nodejs.
- Developed attractive UI using Flutter and enabled the functionality via connecting to Django .
- Developed payment gateway using RazorPay API and push notifications using Twilio API.

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL, Embedded C, Dart
Technologies/Frameworks: Linux, GitHub,React, Flutter
Certifications: Intermediate Machine Learning Certificate by Kaggle, AWS Academy Cloud Foundations by AWS Academy

Achievements

Published paper about Auto-Encoder LSTM at 2022 Innovative Trends in Information Technology

Runner up in biomedical Hackathon at SSN College