Tarun Sri Sai Vadlapatla

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EDUCATION

Gokaraju Rangaraju Institute of Engineering and Technology　　　　　　　Hyderabad, Telangana
Bachelor of Technology in Computer Science and Business Systems (CGPA of 8.7)　　　　　*2020 - Present*

PROJECTS

Real Estate Price Predictor | *Python(pandas, numpy, scikit-learn), Angular, Bootstrap, Docker*　　　*2023*

- Developed a Python and Angular price predictor web application that can predict the price of a plot in the range of 10 lacs to 65 crores in the metropolitan cities of Mumbai and Hyderabad.
- The real estate dataset consists of 9000 plot listings, requiring a comprehensive preprocessing of the data and a refined division of training and testing datasets.

Language Detector | *Python(pandas, numpy), Angular, Bootstrap, Docker*　　　*2023*

- Crafted a Python and Angular language detection web application that can be used to predict the language of the text up to 2000 characters in a wide variety of languages.
- The training corpus consists of 13000 sentences in over 100 languages, which are tokenised and fed into a Markov 3-gram model written from scratch.

Motorcycle Crash Detection and Alert System | *Arduino, Kodular, ESP-32, Firebase*　　　*2022*

- Devised a Motorcycle Crash Detection System utilizing an MPU 6050 accelerometer sensor in conjunction with the ESP-32 microcontroller to predict a motorcycle crash and send an alert to the emergency contacts.
- The application relies on the Firebase database, which sends the position status, calculated in 3 axes, to the smartphone app written with Kodular, which will acknowledge the crash and relay information for up to 3 emergency contacts.

CERTIFICATIONS

An Introduction to Artificial Intelligence | *NPTEL*　　　*2023*

- Earned a certificate in artificial intelligence, taught over 12 weeks and comprising of 25 topics from AI history to Deep Reinforcement Learning.
- Demonstrated proficiency in the NPTEL-proctored written examination by achieving an aggregate score of 47%.

Linux | *IITB Spoken Tutorials*　　　*2023*

- Attained a certification through IIT Bombay Spoken Tutorials, involving Linux Operating System, file system and terminal commands.
- Participated in the corresponding 2-hour offline proctored exam, and secured a commendable aggregate score of 72.22%.

PUBLICATIONS

A Performance Analysis on A* vs Depth Limited Search: A Case Study | *E3S Web of Conferences*　　　*2023*

- Authored a research paper that conducted a comprehensive analysis of the operational efficiency of 2 popular AI search algorithms in 3 different graphs.
- Employed the Python programming language as the primary tool for experimentation and evaluation of the graphs with 5, 13, and 26 nodes respectively.

Motorcycle Crash Detection and Alert System using IoT | *E3S Web of Conferences*　　　*2023*

- Prepared a research paper on the Motorcycle Crash Detection and Alert System academic project involving 3 functional components.
- The project used the ESP-32 microcontroller paired with the MPU6050 accelerometer to detect crashes and alert up to 3 emergency contacts upon a crash.

PROFILE LINKS

- https://hackerrank.com/tarunsrisaiv03
- https://codechef.com/users/tarunsrisaiv03
- https://codeforces.com/profile/tarunsrisaiv03
- https://leetcode.com/tarunsrisaiv03
- https://interviewbit.com/profile/tarunsrisaiv03

TECHNICAL SKILLS

Java, Python, C/C++, JavaScript, HTML/CSS, R, Angular, Node.js, Git, VS Code, Jupyter Notebook, Google Colaboratory, Pandas, NumPy, Matplotlib, Scikit-learn, Docker