

Abhishek Julia

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EDUCATION

Gokaraju Rangaraju Institute of Engineering and Technology
Bachelor of Technology in Computer Science and Business Systems (CGPA of 7.39)

Hyderabad, Telangana
2021 - Present

PROJECTS

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

- Developed a highly efficient Python application for forecasting real estate values in Hyderabad and Bangalore, encompassing properties with values ranging from 10 Lakhs to 65 Crores. Leveraging a comprehensive dataset of over 70,000 listings.
- The application seamlessly extracted effective data from web sources to fuel the related forecasting model. Result: precise and reliable price predictions, setting a new standard in real estate analytics.

Smart Parking Assistant | *Arduino, Blynk, ESP-32, Firebase* 2022

- Designed and developed a Smart Parking Assistant with Ultrasonic Sensors, IoT, ESP-32 microcontrollers. Enabled real-time alerts via Firebase for Blynk app. Collaborated for seamless hardware-software integration.
Result: Smart parking solution using ultrasonic sensors to maintain a safe distance from obstacles and control lighting, enhancing driver safety.

CERTIFICATIONS

Big Data Computing | *NPTEL* 2023

- Earned a certificate in Big data computing, taught over 8 weeks and computing about 25 topics, Enabling insights, analytics and innovation, it empowers industries through scalable solutions for complex data challenges
- Demonstrated proficiency in the NPTEL, Proctored written examination by achieving an aggregate score of 66%.

Linux | *IITB Spoken Tutorials* 2023

- Attained a certification through IIT Bombay Spoken Tutorials, involving Linux Operating System, file system, and terminal commands.

Data Science | *Innomatics Research Labs* Present

- Currently enrolled in an 8-month Data Science certification program at Innomatics Research Labs. The objective is to attain a level of expertise that aligns with industry standards. This program is a crucial step in further developing skills and knowledge in the field of Data Science.

PUBLICATIONS

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

- Led a skilled team of four in researching and crafting a paper, scrutinizing the performance of Python-based A* Search and Depth Limited Search algorithms.
- Used Python to experiment and evaluate graphs with 5, 13, and 26 nodes. Meticulously graphed data to compare node visits, determining the superior algorithm.

Smart Parking Assistant: Integrating Ultrasonic Sensors and IoT | *E3S Web of Conferences* 2023

- Designed a Parking Assistant system that helps drivers park their vehicles safely by using an HC-SR04 sensor for precise distance measurement.
- Implemented a programmable safe limit; when the vehicle encroaches within the defined safety limit, the driver will be alerted with a buzzer and a Blynk application. This innovative solution was presented at the ICMED-ICMPC conference.

PROFILE LINKS

- <https://github.com/ABHISHEKJULA07>
- https://leetcode.com/abhijula_18
- <https://hackerrank.com/abhishekjula018>

TECHNICAL SKILLS

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