KARUNAKAR USALA

Hyderabad,Telangana

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EDUCATION

Malla Reddy Institute of Technology and Science   **2020 – 2024**
*Computer Science and Engineering - **CGPA - 7.94***   *Hyderabad, Telangana*

Gurukrupa Junior College   **2018 – 2020**
*Intermediate - MPC - **Percentage - 94%***   *Siddipet, Telangana*

Sri Vani High School   **2017 – 2018**
*SSC - **Percentage - 98%***   *Siddipet, Telangana*

CORESKILLS / RELEVANT COURSEWORK

- Data Structures and Algorithms
- Database Management System (DBMS)

PROJECTS

Preduction of Air Pollution ⎘ | Python,HTML,CSS,JavaScript,Machine Learning

- Developed a predictive model for air pollution using **Python**, focusing on machine learning algorithms such as **linear regression, random forest, and ridge regression**. Leveraged **HTML, CSS, and JavaScript** to create intuitive web interfaces for visualizing and interacting with environmental data. Implemented scalable solutions to ensure real-time data processing and analysis, optimizing predictive accuracy and usability. .

DINO vs Dragon: Collision of Titans ⎘ | HTML,CSS,JavaScript

- Developed an engaging game, "DINO vs Dragon: Collision of Titans", featuring dynamic battles between dinosaurs and dragons. Implemented collision detection algorithms including:
  Bounding Box Collision: Ensures accurate interaction between game objects.
  Pixel-Perfect Collision: Provides detailed collision detection for precise gameplay mechanics.
  Utilized **HTML, CSS, and JavaScript** for interactive front-end development, enhancing user experience through intuitive interfaces and immersive gameplay elements. .

Real-World Project Experience: Zomato and Hotstar Clones ⎘ | React Js ,Node Js,Express Js,MongoDB

- Developed functional clones of Zomato and Hotstar to gain practical experience in real-world application development. Utilized **HTML, CSS, JavaScript, React Js** and backend technologies like **Node Js,Express Js,MongoDB** to replicate core functionalities including restaurant discovery and video streaming, enhancing skills in front-end and backend development.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Front-end Technologies: HTML, CSS, Tailwind css, JavaScipt, React Js
Back-end Technologies: Node Js,Express Js,MongoDB
Tools and Platforms: GitHub, Visual Studio Code (VS Code) , Netlify

CERTIFICATIONS

Certificate of Intership Training Completion

- Completed rigorous full-stack web development internship, specializing in MERN Stack technologies. Acquired hands-on experience in **MERN Stack(MongoDB,Express Js, React Js,Node Js)** and responsive design, contributing to the development of interactive and user-friendly web applications. .

- **Link:** https://in.docworkspace.com/d/sIHTb4YvrAfC9sLQG

INTRESTS AND EXTRACURRICULAR ACTIVITIES

College Cricket Team Captain ⎘
Role:

- Led the team to the finals, coordinating strategies and fostering teamwork to achieve competitive success in college cricket tournaments.