AMARAGUNDA ABHISHEK

[LinkedIn]
[GitHub]
Email:abhishek.2004.20.8@gmail.com
Mobile: +91 808826621

EDUCATION

CMR Technical Campus — Hyderabad, Telangana
B.Tech CSE | *CGPA*: ***8.76*** — (2023 - 2027)

Narayana jr. college — Hyderabad, Telangana
MPC | *89.6%* — (2021 - 2022)

EXPERIENCE

- Contributed my work in developing a web application "**Uber for Blood**" A real-time blood donation platform that connects patients in need with compatible donors within a 10 km radius, ensuring quick and lifesaving responses.
- Engineered a "**Medicine Transport Bot"** for the VNR Hackathon, enabling autonomous delivery using a line-following algorithm. Integrated efficient path-tracking for seamless navigation in healthcare environments.

SKILLS SUMMARY

- **Programming Languages:** Java, JavaScript, C, Python (Basic)
- **Frontend:** React.js, HTML5, CSS3, Tailwind CSS
- **Backend:** Node.js, Express.js
- **Database:** MongoDB, SQL (basics).
- **Soft Skills:** People Management, Team Collaboration, Effective Communication.

PROJECTS

WORKOUT TRACKER | React.js, Redux, Node.js, Express, SQL, and JavaScript [Jan 2025]

- A full-stack fitness tracking app built using React.js for the frontend and Redux for state management, with Node.js, Express, and SQL on the backend. Users can log, edit, and delete workouts, track sets, reps, and max weight, and visualize progress with Chart.js.
- Includes inline editing, bulk delete, RESTful API integration, and a responsive UI styled with Tailwind CSS for efficient workout tracking and progress monitoring.

UberForBlood — Full-Stack MERN Application | Ongoing

- Designed a real-time blood donation platform with Socket.io for instant donor-seeker communication.
- Used Redux Toolkit for scalable state management and MongoDB for persistent user/request data.
- Reduced geolocation response time by ~80% using client-side caching.
- Implemented secure user authentication and optimized backend API throughput.

HAND GESTURE RECOGNITION AND VOICE CONVERSION USING CNN | Python, OpenCV, CNN [Feb 2025]

- Creating a desktop application that uses a computer's webcam to capture a person signing gestures for American Sign Language (ASL), and translate it into corresponding text and speech in real time
- The translated sign language gesture will be acquired in text which is farther converted into audio. In this manner we are implementing a finger spelling sign language translator. To enable the detection of gestures, we are making use of a Convolutional neural network (CNN).

ACHIEVEMENTS

- Solved 300+ problems on different coding platforms (leetcode, smart interviews, codechef, hackerrank).
- Scored in top 20 in coding contest conducted by Smart interviews.
- Participated in 5+ hackathons, developing real-world solutions under time constraints in collaborative team environments.

COURSEWORK

- Data Structures & Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Architecture and Organization.