

MOCHERLA CHANDRA KAUSTUB

Hyderabad | +91-8688461879 | mocherla.kaustub@gmail.com | <https://www.linkedin.com/in/kaustub-mocherla/>

SUMMARY

Computer Science student with hands-on experience in IoT, web development, and real-time systems. Built a WiFi-controlled RC car using ESP8266 and Blynk, showcasing strong skills in embedded systems and problem-solving. Proficient in C, Python, Java, HTML5, and MySQL. Known for initiative, teamwork, and delivering practical tech solutions.

EDUCATION

ICFAI Foundation for Higher Education Bachelor of Technology in Computer Science and Engineering	Aug 2023- Present
• CGPA : 8.93	
FIITJEE Junior College, Hyderabad Intermediate	March 2021 - 2023
• Percentage : 86.5%	
Delhi Public School, Hyderabad 10 th Board	June 2020 - 2021
• Percentage : 96%	

SKILLS

Languages : Python , Java , C

Web Technologies : HTML5 , Java Script , CSS , Bootstrap , AngularJS

Databases : MySQL

Tools : Google Sites , Git

Soft Skills : Leadership , Communication , Time Management , Teamwork

TECHNICAL PROJECTS

Community Skill-Sharing & Workshop Management Database SQL, ER Modeling, 3NF	April 2025 - Present
• Designed a 6-table relational database to manage users and skill-sharing events, enabling structured tracking of user roles and skill categories.	
• Optimized schema design through 3NF normalization , ensuring high-performance querying and flexible user-skill mapping for diverse workshop/session types.	
• Structured a flexible user-skill mapping system that distinguishes between teaching and learning preferences across 20+ skill categories .	
AI-Powered Smart Waste Management System HTML, JS, Google Cloud Vision API, Firebase, Google Maps API	March 2025 - Present
• Created an AI-enabled web app that classified waste types using Google Vision API and recommended nearby disposal centers via Maps API , improving disposal accuracy .	
• Implemented real-time bin tracking and smart route optimization for municipal trucks, improving collection efficiency; deployed fully on Firebase using public datasets.	
• Developed a smart route optimization module using geolocation and AI logic to enhance municipal collection efficiency and reduce fuel usage.	
WiFi-Controlled RC Car ESP8266, C++, Blynk, PWM, H-Bridge Motor Driver	Nov 2024
• Developed a WiFi-controlled RC car with 40% reduced latency , enabling mobile-based control and real-time speed/direction adjustment using PWM and motor drivers.	
• Engineered a power-efficient system that increased operational runtime by 25% , and implemented fail-safe protocols to ensure 95% command accuracy during WiFi disruptions .	
• Implemented PWM speed control and an H-bridge motor driver , delivering precise real-time acceleration, braking, and steering.	

CERTIFICATIONS

- Exploratory Data Analysis
- Data Processing and Visualisation

EXTRA-CURRICULAR ACTIVITIES

- Awarded the **All-Rounder Badge** for excellence in academics, sports.
- **Captain** of the Delhi Public School Tennis Team; led participation in multiple inter-school tournaments.
- Represented school in **state-level art competitions**, demonstrating creative and visual skills.
- Actively participated in college **tech fests**, contributing to collaborative problem-solving and innovation events.
- Created academic and club websites using **Google Sites**