

C V CHARAN

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EDUCATION

B.Tech in Computer Science and Engineering, IIIT RGUKT RK Valley 2022–26 (**CGPA: 9.0**)

Relevant Coursework: Data Structures Algorithms, Database Management Systems (DBMS), Operating Systems (OS), Computer Networks, AI, Data Science with Python

EXPERIENCE

SDE Intern, Learn Square | MERN, Socket.io, Gemini, Tailwind May-2025 | [link](#)

- Led 70%+ of MERN stack build, managed a 3-member Agile team, accelerating delivery by 30%.
- Deployed real-time tracking, dynamic maps, and in-app chat for 10K+ users with RBAC.
- Built secure multi-role auth (JWT, Google OAuth), admin dashboard, and Gemini AI price prediction.
- Delivered modern UI sub-second APIs (99.9% uptime), reducing code redundancy by 40% (SOLID/DRY).
- Implemented comprehensive error logging, boosting system stability and debugging efficiency.

PROJECTS

RkvBros Academic Portal | MERN,requests,pandas,JWT,OAuth,Socket.io,Recharts [GitHub](#) | [Live](#)

- Built full-stack portal for 10K+ students with JWT/OAuth, 100+ live users friend-gated access.
- Scraped, processed 2K+ student records via Python + Pandas, synced to MongoDB (CSV pipelines).
- Implemented 500+ user group chat, anonymous messaging, live comms via Socket.io.
- Designed 5+ Recharts dashboards showing gender ratio, district stats, academic trends.

LinguaBot | FastAPI, MongoDB, Gemini API, JWT, Hugging Face [GitHub](#) | [Live Demo](#)

- Led team to build secure REST APIs (FastAPI, JWT auth, MongoDB) for 1K+ chat sessions.
- Integrated Gemini API for AI grammar feedback; used embeddings for context-aware responses.
- Fine-tuned deployed custom NLP model (Hugging Face Transformers) for grammar correction.
- Collaborated on Flutter frontend voice access; deployed backend on Render.

Ask-Bro SQL Agent (In Progress) | MERN, Gemini API, LangChain.js [GitHub](#) | [Live Demo](#)

- Building Node.js backend: converts natural language to SQL via LangChain.js Gemini API.
- Executes queries on PostgreSQL, returns results in plain language or dynamic charts (Recharts).
- Enables non-technical users to perform deep data analysis without SQL; supports schema.
- React frontend with modular design intelligent prompt chaining for fluid user experience.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C

Web: React, Next.js, Node.js, Express, FastAPI, REST, HTML, CSS, Tailwind, Bootstrap

Database/Realtime: MongoDB, SQL, Mongoose, Motor, Socket.io

Tools/Deploy: Git, GitHub, VS Code, Postman, Copilot, ThunderClient, Vercel, Render, Netlify

Soft Skills: Leadership, Communication, Management, Self-Motivated

ACHIEVEMENTS & LEADERSHIP

- LeetCode Knight (1900+), 900+ DSA problems solved; Top Performer at LearnSquare Intern.
- Selected for 10K stipend internship (not joined); IIIT GFG 2nd, Blind Coding 1st.
- Python DSA/Core Java certified; led 400+ peers, organized events, mentored teams, conducted coding sessions.