

D Dolitha Chowdary

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Objective

Computer Science undergraduate with strong foundations in software development and object-oriented programming. Experienced in writing, testing, and debugging code across full-stack and AI-based systems. Comfortable collaborating with senior engineers, participating in code reviews, and continuously learning new technologies in agile development environments.

Education

Sridevi Women's Engineering College, Hyderabad
B.Tech in Computer Science

2022 – 2026
CGPA: 8.03

Internships

Defence Research and Development Organisation (DRDO), Hyderabad
Project Intern

April 2025 – September 2025

- Collaborated with scientists and senior engineers at DRDO to understand system requirements, contribute to design discussions, and deliver full-stack communication models.
- Contributed to design documentation and architecture discussions under senior guidance.
- Implemented and tested backend APIs, integrated database modules, and improved system reliability through clean, modular code.

Projects

AI-Based Drug Repurposing Application — Python, React, OpenAI API

Present

- Developing an AI-driven drug repurposing framework leveraging **Graph Neural Networks (GNNs)** and **molecular embeddings** to predict novel drug–target interactions.
- Built an interactive React interface for drug query input and result visualization.

Offline Real-Time Meeting Transcriber — FastAPI, React, Whisper, PyAnnote — [\[View Project\]](#)

August - 2025

- Developed an offline real-time speech-to-text system using **FastAPI**, **React**, and **WebSockets**, integrated with **Whisper** for accurate offline transcription.
- Optimized chunk-based audio streaming pipeline, **reducing transcription latency by 40%** and improving real-time responsiveness.

Heart Disease Prediction using Retinal Images — Python, Streamlit, ResNet18 — [\[View Project\]](#)

March - 2025

- Developed a **ResNet-18 CNN model** for retinal image recognition and fine-tuned it using **PyTorch** to predict heart disease risk.
- Deployed the trained model as an interactive **Streamlit web app**, ensuring high usability and real-time inference.

Technical Skills

- Languages:** Python, C, Java, JavaScript
- Frontend:** HTML, CSS, React (Vite)
- Backend:** FastAPI, MongoDB, REST APIs
- Tools:** Git, VS Code, Postman
- Core Competencies:** Data Structures & Algorithms (DSA), Full-Stack Development, Problem Solving

Certifications

- SQL (Basic & Intermediate)** – HackerRank — 2025
- AWS Cloud Management** – Forage — 2025
- Introduction to Responsible AI** – Google Cloud Skill Boost — 2025
- Generative AI for Everyone** – Coursera — 2025
- Python (Basics)** – HackerRank — 2024