

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	2022 – 2026
B.Tech in Computer Science	CGPA: 8.03

Internships

Defence Research and Development Organisation (DRDO), Hyderabad	April 2025 – September 2025
Project Intern	

- 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
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- 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
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- 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
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- 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