

# Edmala Pranay Reddy

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## Summary

Software Developer with strong expertise in **Data Structures Algorithms** and core CS fundamentals (**OOP, DBMS, OS**). Experienced in building scalable AI-driven systems including a **Deepfake Detection model (91% ROC-AUC)** and a **Crisis Command disaster response platform** developed during a competitive hackathon. Solved **300+ problems** on LeetCode and CodeChef, consistently ranking in the top **15%** in leaderboard.

## Education

**B.Tech, Computer Science & Engineering** — GRIET, Hyderabad

2023 – 2027

CGPA: 8.00

Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOP, Computer Networks

## Technical Skills

**Backend:** FastAPI, Node.js, Express.js

**Frontend:** React.js, HTML, CSS

**Programming:** Python, C, C++, JavaScript

**Databases:** MongoDB, MySQL, PostgreSQL

**Tools & DevOps:** Git, GitHub, Docker, VScode, Streamlit, Netlify

**Coding Profiles:** [Hive](#), [LeetCode](#), [CodeChef](#), [HackerRank](#)

## Projects

### CrisisCommand — Multi-Modal AI War Room Platform

Jan 2026

Real-time Generative AI system for crisis detection and predictive simulation.

- Built multi-modal pipeline integrating **video (OpenCV)**, **audio (speech-to-text)**, and **text streams**.
- Implemented real-time disaster classification (fire/smoke detection) using CNN models.
- Designed predictive simulation logic to estimate hazard spread and prioritize emergency resources.
- Developed React dashboard with live map overlays and incident severity visualization.
- Architected modular backend using **FastAPI** for low-latency AI inference.
- **Repo:** [github](#)

### Deepfake Video Detection

Jun 2025

ML system to detect manipulated images/videos with real-time inference.

- Trained Xception (TensorFlow) on **20k+ frames**, reaching **91% ROC-AUC**.
- Deployed inference via **Streamlit UI** and **FastAPI**.
- Reduced false positives by **15%** using threshold calibration and OpenCV preprocessing.
- **Repo:** [github](#)

### Quiz App — Interactive Web Application

Sep 2025

Full-stack quiz platform with real-time score tracking and responsive UI.

- Developed using **React.js, Node.js, Express**, supporting **10+ quizzes**.
- Integrated REST APIs and optimized state handling, reducing latency by **30%**.
- Enhanced UX with score history and retry options; tested across **5+ devices**.
- Deployed via Netlify achieving **150+ sessions**.
- **Repo:** [github](#)

### Personal Portfolio Website

Jun 2025

Responsive site to showcase projects and attract recruiter traffic.

- Achieved **100% Lighthouse accessibility score**.
- Optimized assets reducing load time by **30%**.
- Drew **200+ unique visitors** in the first month.
- **Live:** [pranay3214.netlify.app](https://pranay3214.netlify.app)

## Activities & Achievements

- Ranked in the top **10%** among 300+ participants in Smart Interviews coding contests.
- Solved **500+ DSA problems** across LeetCode, Hive, and CodeChef, covering advanced topics like Dynamic Programming and Graph Algorithms.
- Participated in multiple coding contests and maintained consistent problem-solving streaks.
- Built and showcased **AI prototypes** at GRIET hackathons; collaborated on **5+ team-based projects**.
- Actively engaged in peer discussions on optimization techniques and system design fundamentals.