

Edmala Pranay Reddy

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Summary

AI-focused Software Developer with experience in full-stack and applied ML. Proficient in Python, JavaScript, and SQL; hands-on with LLM APIs, RAG concepts, prompt engineering, and model deployment. Built 3+ projects including a deepfake detector (91% ROC-AUC) and a networking platform projected to cut spoofed accounts by 70%. Strong at rapid prototyping and shipping reliable services. Good at Data Structures and Algorithms.

Education

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

2023 – 2027 (*Expected*)

CGPA: 8.00

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

Technical Skills

AI/ML: TensorFlow, OpenCV, Pandas, NumPy, LangChain (basic), RAG fundamentals, Prompt Engineering

Programming: Python, C, C++, JavaScript, SQL

Backend: Node.js, Express.js, FastAPI, Spring Boot

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

Databases: PostgreSQL, MySQL

Tools/DevOps: Git, GitHub, VS Code, Streamlit, Netlify

Interests: Generative AI, Conversational Search, AI Agents, Observability

Projects

VeriHire — Professional Networking Platform (In Progress)

Jul 2025 – Present

AI-augmented platform validating identities and skills to curb fraudulent profiles.

- **25% faster** API responses after **query/index** tuning on **PostgreSQL**; services built with **Node.js/Express**.
- **Secured** auth with **OAuth2, JWT, OTP** and **Aadhaar/PAN** checks; onboarded **100+** pilot users.
- **Prototyped** AI verification that cross-checks updates with **GitHub** and course certificates (RAG-style evidence).
- Internal tests forecast **70%** fewer spoofed accounts at launch.

Deepfake Video Detection

Jan 2025

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

- **91% ROC-AUC** on **20k+ frames** using **Xception (TensorFlow)**; validated against held-out clips.
- **Exposed** inference via **Streamlit UI** and **FastAPI REST** (Swagger); processed **100+** test videos.
- **15%** fewer false positives after **Youden's J** thresholding and OpenCV preprocessing.
- **Repo:** github.com/pranayreddy-08/deepfake.detection

Personal Portfolio Website

Jun 2025

Responsive site to showcase projects and attract recruiter traffic.

- **100%** Lighthouse accessibility; responsive **HTML/CSS/JS** layout tested across devices.
- **30% faster** loads after image/asset optimizations; smoother UX (sticky nav, smooth scroll).
- **200+** unique visits in the first month after **Netlify** deployment.
Live: pranay3214.netlify.app

Experience

Virtual Internship Program — JPMorgan Chase & Co. (Forage)

Jul 2025 – Present

- **10k+ msgs/sec** simulated market data processed using **Kafka + Spring Boot** in distributed pipelines.
- **20% lower** tail latency via backpressure and batching patterns under stress tests.
- **Explored** microservices, event-driven design, and **observability** practices relevant to AI/RAG systems.

Leadership & Activities

- Top **15%** in Smart Interviews coding contests among **100+** peers (timed DSA).
- Pitched AI prototypes at GRIET hackathons; presented to **50+** students/faculty.
- Contributed to **5+** team projects across backend APIs, deployment, and rapid AI prototyping.