Krishna Yaswanth Panchagnula

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Education

Sreyas Institute of Engineering and Technology — Expected 2027
Bachelor of Technology in Computer Science and Engineering (3rd Year) — Hyderabad, India

Technical Skills

- **Languages:** Python, Java, C, C++, SQL, JavaScript
- **Backend & DevOps:** FastAPI, Docker, Docker Compose, Nginx (Reverse Proxy), Linux Shell
- **Frontend:** React, HTML5, CSS3, UI/UX Design
- **Databases:** PostgreSQL, MongoDB, MySQL
- **AI/ML Tools:** Gemini API, Hugging Face, PyTorch, OpenCV, Generative AI Foundations

Key Projects

Haven – Digital Mental Health Support System — *FastAPI, Docker, Gemini API*
- Engineered a full-stack platform using **Docker Compose** and **Nginx** for secure, containerized deployment.
- Integrated **Google Gemini 3.0** for conversational intelligence, coupled with local sentiment analysis.

Volume Control System via Hand Gestures — *Python, OpenCV, MediaPipe*
- Built a computer vision application utilizing gesture recognition to control system hardware in real-time.

Bank Management System — *Java, AWT, MySQL*
- Developed a desktop application for secure banking transactions and account management.

Technical Certifications

- **NPTEL: Data Science for Engineers** | *IIT Madras* — *Sep 2025*
  - Completed 8-week proctored course with a consolidated score of **55%**. [Roll: NPTEL25CS101S537005873]

- **Gemini Certified University Student** | *Google for Education* — *Nov 2025*
  - Demonstrated competency in Google AI and Gemini-based workflows. [Valid through Oct 2028]

- **Introduction to Generative AI** | *Google Cloud (Simplilearn)* — *Nov 2025*
  - Certified in foundational Generative AI principles and Google Cloud integration. [Code: 9321732]

- **Python Course for App Developers** | *Udemy* — *Aug 2025*
  - Certified in end-to-end application development with Python. [ID: UC-d2047a52-bba3-49fd-8ef8-81e9169e0243]

- **Data Science Bootcamp** | *GeeksforGeeks* — *Dec 2025*

Workshops & Hackathons

- **HackWithHyderabad Hackathon** | *Microsoft Office, Hyderabad* — *2025*
  - Actively participated in building innovative solutions at Microsoft's Hyderabad regional hub.

- **10-Day Linux Workshop** | *LeoAxis (Ministry of MSME, Govt. of India)* — *Oct 2025*
  - Completed hands-on training in Linux system administration and command-line workflows.

Professional Development

- **Red Bull (via Forage):** Off-Premise Sales Job Simulation (Client analysis and presentation) — *July 2025*
- **Technical Writing:** Published industry analysis on LinkedIn regarding Humanoid Robotics and AWS outages.