

Raviteja Karnati

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🔗 My Portfolio

in ravitejakarnati

🔗 Raviteja-5976

Education

Guru Nanak Institutions Technical Campus, Hyderabad city, Telangana, India

CGPA: 7.54 — 2025

- 2021 - 2025
- Major: Computer Science Engineering Branch (CSE)

New Era Co-op Jr College, Hyderabad city, Telangana, India

Score: 840 — 2020

Sri Chaitanya Techno School, Hyderabad city, Telangana, India

GPA: 8.8 — 2018

Skills

Programming Languages: Python, JavaScript, MySQL, SQLite, HTML, CSS

Development: Object-Oriented Programming, RESTful APIs, Django, Flask, Streamlit, ReactJS, Node.js, Neural Networks, Generative AI, Boomi Integration

Tools: Git, Linux, Docker (Basics), NGINX (Basics), Postman

Concepts: System Design Basics, Microservices Architecture, CI/CD Pipelines (Basics), Data Analysis

Projects

AI Project Manager

- Built an AI-powered project management platform that helps teams plan, organize, and track software projects using natural language.
- Developed AI agents capable of generating milestones, tasks, and subtasks from project requirements, reducing manual project planning effort.
- Integrated multiple LLMs to assist with task generation, project discussions, and intelligent workflow management.
- Designed a scalable full-stack architecture using Next.js, Node.js, PostgreSQL, and modern state management for a responsive user experience.

AI Caller

- Developed an AI voice calling system capable of conducting natural conversations using Speech-to-Text, Large Language Models, and Text-to-Speech.
- Implemented real-time bidirectional voice streaming to enable low-latency AI interactions during live phone calls.
- Built conversation workflows supporting customer support, appointment scheduling, lead qualification, and information collection.
- Designed modular backend services using Flask and REST APIs for easy integration with external business applications.

Email Server (Mailcow Deployment)

- Deployed and managed a self-hosted email server using Mailcow (Docker-based architecture).
- Configured DNS, SPF, DKIM, DMARC, reverse DNS for secure and reliable email delivery.
- Set up SSL certificates using Let's Encrypt and enforced secure communication.
- Managed Linux server, networking, firewall, and process monitoring.

Learning Helper Assistant

- Containerized Flask application using Docker for consistent deployment.

- Designed API-driven architecture suitable for scalable deployment.
- Integrated LLM-based backend with deployment-ready infrastructure practices.

Hyrzo - AI Interview Platform

- Built an AI-powered interview platform using Next.js and Node.js that conducts live voice interviews with candidates.
- Developed a custom interview scoring algorithm evaluating Words Per Minute (WPM), fluency, filler word usage, response quality, and communication effectiveness.
- Implemented real-time coding assessments with an integrated code editor, enabling candidates to solve programming challenges during interviews.
- Designed dynamic interview workflows combining voice-based interactions, coding rounds, and text-based questions to simulate real-world technical interviews.
- Generated automated interview reports and candidate performance insights to assist recruiters in screening and evaluation.

Neural Networks from Scratch

- Built a multilayer backpropagation neural network entirely from scratch using Python.
- Implemented forward and backward propagation, gradient descent, and weight updates using NumPy and core math principles.
- Visualized training performance and decision boundaries using Matplotlib.

Experience

AI Engineer Intern — Hathority LLC (Feb 2025 - Aug 2025)

- Implemented RAG systems and deployed AI services with API-based architecture.
- Worked on backend services and deployment workflows for AI-based applications.
- Assisted in integrating AI solutions into production environments.
- Collaborated using Git-based workflows and version control practices.

Core Team Member in Management Team — GDSC, GNITC (2024)

- Handle the Task Manager Web App developed for GDSC
- Manage data and coordination for GDSC Teams

Organizing Lead — IEEE GNITC Chapter (2025)

- Responsible for conducting and planning technical seminars
- Manage non-technical teams under IEEE GNITC in college

Achievements

- Won 2nd Position in GDSC solution challenge at college level for EchoMind project
- Selected for regional level (All India) in GDSC solution challenge
- Won 1st Prize in Innovative Idea Presentation for developing CAAL (Context Aware Adaptive Learning) methodology. Developed innovative methods to optimize Large Action Model (LAM)
- Been a Resource person for AI Mastery Bootcamp in our college and helped my juniors to learn about AI and tools.

Certificates

- Certification of Achievement – 2nd Position in Build Together Challenge in College (20th – 21st December 2023)
- Solution Challenge Certificate (January 2024)
- Certificate of Appreciation – Winner of Paper Presentation Competition Tech Ignition in GNITC (13th June 2024)
- Foundations of Cyber Security – Google (Coursera) (29th June 2024)
- Play It Safe: Manage Security Risks – Google (Coursera) (6th July 2024)

- Connect and Protect: Networks and Network Security – Google (Coursera) (10th July 2024)
- Boomi Associate Integration developer - Boomi (26th Feb 2025)
- Boomi Professional Integration developer - Boomi (May 2025)
- Certificate of Appreciation – Resource Person for AI Mastery Bootcamp (30th – 31st August 2024)
- Certification of Participation – National Level GenAI Hackathon, Nalla Narsimha Reddy Educational Society Group of Institutions (21st September 2024)
- Certification of Participation – National Level Hackathon, Guru Nanak Institutions (21st – 23rd November 2024)
- GitHub Foundations Certification (June 2025)