

MANAV MERJA

Full Stack Web Developer & ML Engineer

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SUMMARY

Computer Engineering student at CHARUSAT with strong proficiency in building dynamic web applications and AI/ML models. Passionate about solving real-world problems through code and actively learning Data Structures. Aspiring Open Source contributor preparing for Google Summer of Code (GSoC).

PROJECTS

Nebula Cloud [🔗](#) [\[Live Demo\]](#)

Tech Stack: Next.js, TypeScript, React Flow, Groq/Gemini AI, Terraform

- Developed an **AI-powered Infrastructure-as-Code (IaC) platform** that visualizes cloud architectures and generates production-ready Terraform code from text prompts.
- Integrated a **multi-agent AI pipeline** (Llama 3 & Gemini Pro) to draft, audit, and validate infrastructure against AWS security and cost standards.
- Designed an **interactive visual canvas** using React Flow for real-time state management, enabling users to modify and export secure cloud deployments.

Niti.ai [🔗](#) [\[Live Demo\]](#)

Tech Stack: Next.js, ZYND Protocol, OpenAI API/LLMs, Python

- Built an **AI-powered policy research assistant** leveraging the **ZYND Protocol** for secure data handling.
- Integrated **Large Language Models (LLMs)** to analyze complex government documents and provide instant, accurate answers.
- Crafted a clean, responsive chat interface focused on simplifying legal and policy information for the general public.

Next Event [🔗](#) [\[Live Demo\]](#)

Tech Stack: Next.js, Node.js, Express.js, MongoDB, Tailwind

- Developed a scalable full-stack **event aggregator platform** utilizing **Next.js** and **Express.js** for robust backend logic.
- Architected a custom REST API with **Node.js** to handle dynamic event data retrieval, auth, and search filtering.
- Constructed a seamless **UI** with Tailwind CSS, ensuring fast load times and an engaging user experience.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, TypeScript, SQL

Web Development: Next.js, React.js, Node.js, Express.js, Tailwind, MongoDB

AI / ML: TensorFlow, PyTorch, Scikit-learn, LLMs (OpenAI/Gemini)

Tools: Git, GitHub, VS Code, Google Antigravity, Docker

EDUCATION

Charotar University of Science and Technology (CHARUSAT)

July 2024 - Present

B.E. in Computer Engineering | First-Class With Division Pass - (NEP)

Shree Nirmal Science School, Morbi

June 2022 - March 2024

Higher Secondary Education (Science Stream) | Percentage: 89%

ACHIEVEMENTS & SOFT SKILLS

- Hackathon Achievement:** Secured **Top 10 Rank** at **AIT Hackathon** with Team Heisenberg.
- Leadership:** Led multiple hackathon and academic projects with task planning and coordination.
- Interpersonal Skills:** Confident in establishing immediate rapport with new team members and stakeholders.
- Teamwork:** Collaborated effectively with diverse teams during tech fests and group projects.