Milin Patel

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Professional Summary

AI-focused Computer Science student skilled in building intelligent, voice-enabled apps and scalable backend systems using Python, Flask, and modern AI APIs.

Proven ability to turn complex ideas into real-world tools through prompt engineering, NLP, and full stack integration.

Driven to deliver impactful, production-ready solutions in AI, backend, or full stack roles from day one.

Technical Skills

- Programming Languages: Python, SQL, C++, Java, C
- Frameworks & Libraries: Flask, Gradio, HuggingFace Transformers, NumPy, Pandas, Matplotlib
- AI & ML Concepts: Natural Language Processing (NLP), Prompt Engineering, Generative AI, Voice Automation, TTS, STT, Model Deployment
- Web & Backend Development: RESTful APIs, Flask Web Development, Full Stack Architecture
- Dev Tools: Git, GitHub, VS Code, Linux
- Soft Skills: Analytical Thinking, Team Collaboration, Effective Communication, Agile Methodologies

Education

VIT Bhopal University – B.Tech in Computer Science (AI & ML)

2023 – Present | CGPA: 8.56 / 10

Bal Bharati Public School, Ludhiana

Class XII – 89.6% | Class X – 96.2%

Projects

C.H.A.O.S AI – Voice-Based Multimodal Assistant

- Built a multimodal AI assistant using Python, Gemini API, Flask, and Gradio to handle voice commands and control applications.
- Integrated speech recognition and text-to-speech for interactive, real-time task execution.
- Engineered modular backend logic to support easy scalability and extensibility.

Study Routine Coach – AI-Based Productivity Web App

- Developed a study planner using Flask and Gemini Pro to auto-generate and manage personalized schedules.
- Designed backend APIs and integrated a frontend generated with an AI-assisted design tool, later refined for usability.
- Demonstrated effective full stack integration and strong prompt engineering skills.

Certifications

- Developing AI Applications with Python and Flask – IBM
- Generative Al: Prompt Engineering Basics – IBM
- Advanced SQL for Technical Interviews — BoosCoder Academy
- Cloud Computing — NPTEL
- Generative Al: Introduction and Applications — IBM
- Python for Data Science, AI & Development — IBM
- Introduction to Artificial Intelligence (AI) — IBM

Experience & Campus Involvement

Core Technical Member – Technomech Club, VIT Bhopal

2024 – Present

- Organized and coordinated a UI/UX hackathon during Advitya'25, one of Central India's largest tech festivals, with 100+ participants.
- Collaborated with event leads on logistics, mentor outreach, and judging workflows.
- Supported a culture of innovation and peer-led learning through hands-on engagement.

Languages

English (Fluent) | Hindi (Native) | Gujarati (Fluent) | Punjabi (Conversational) | French (Basic)

Interests

AI Tool Prototyping | Backend System Design | Full Stack Projects | Basketball | Karate