

Parva Nachan

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Professional Summary

Driven Computer Science student with hands-on experience in full-stack development and AI/ML. Passionate about building scalable applications and agentic AI systems. A quick learner with strong problem-solving skills, thriving in collaborative environments to create innovative, user-centric solutions at the intersection of technology and business.

Technical Skills

- **Languages:** Python, Java, JavaScript, C++, HTML, CSS
- **Databases & Tools:** SQL, Excel, Git, Ollama
- **Frameworks & Libraries:** React.js

Education

Vellore Institute of Technology, Bhopal
B.Tech Computer Science and Engineering

Aug 2022 – Aug 2026
CGPA: 7.80

Experience

VLSI Design Intern — RISC-V ISA & RV32I RTL Design (Remote) Jan 2025 – Mar 2025

- Implemented and simulated a 5-stage RV32I processor pipeline in Verilog, from fetch to write-back.
- Developed synthesizable, RISC-V compliant RTL modules and integrated them into a complete processor.
- Created verification testbenches, debugging logic errors to achieve a 100% simulation pass rate.

Projects

EchoAI – Conversational Voice Agent

Dec 2024 – Feb 2025

Python, Mistral LLM (Ollama), ElevenLabs API, VADER Sentiment, Google Speech Recognition

- Engineered a modular voice AI with more than 90% response accuracy using a local Mistral LLM and VADER sentiment analysis.
- Achieved less than 8s response latency by running Mistral locally and optimizing audio processing with Pydub.

Prakriti Diagnosing Chatbot – Personalized Ayurveda Health

Aug 2024 – Oct 2024

React.js, Python, NLP, Dialogflow, IndexedDB, Web Speech API

- Developed an AI chatbot diagnosing user Prakriti (Ayurvedic constitution) with 75% accuracy using NLP, guiding 1,000+ users.
- Built an offline-first React UI with voice input and adaptive forms, reducing user drop-off by 40%.

Early Disease Detection in Plants Using Deep Learning

Oct 2023 – Jan 2024

Python, TensorFlow, Keras, OpenCV, CNN, Flask

- Achieved 81% accuracy in plant disease detection using a custom CNN model on leaf image datasets.
- Deployed a user-friendly Flask UI for real-time classification to aid farmers in early intervention.

Certifications & Extracurricular

- NPTEL: Cloud Computing Jan–Apr 2024
- NPTEL: Marketing Analytics Jan–Apr 2025
- Coursera: The Bits and Bytes of Computer Networking Dec 2023
- MERN Full Stack Certification Program Jan–Apr 2025
- VLSI Design Internship Program Jan–Mar 2025
- Workshop: Equity, Inclusivity & Representation – VIT Mar 2023
- **Extra-Curricular:** Drove club growth and expanded its professional network as a PR & Outreach Member for the FinTech Club