

PREETI PATIDAR

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Education

Vellore Institute of Technology B.Tech in Computer Science & Engineering	Jul 2026 (Expected) CGPA: 8.95 / 10.0
Macro Vision Academy, Burhanpur Class XII Percentage: 87.6%	Jun 2022
Kendriya Vidyalaya, Mhow Class X Percentage: 91.4%	Apr 2020

Technical Skills

Languages: C, C++, Python, JavaScript, HTML, CSS, SQL, ReactJS, NodeJS

Developer Tools & Platforms: Git, Version Control, MongoDB

Frameworks, Libraries & ML Models: Flask, NumPy, Pandas, scikit-learn, matplotlib

CS Fundamentals: Operating Systems, Computer Networks, DBMS

Projects

SynchCast – Multi-Device Audio Sharing System

Python, PyQt5, NirCmd, Virtual Audio Cable

[Link]

- Engineered a multithreaded Python application enabling simultaneous audio transmission to 3–4 Bluetooth and wired devices with ± 100 ms latency and synchronized playback.
- Designed an intuitive PyQt5 GUI that reduced a 5–10 minute manual Audio Repeater setup to just 3 clicks, simplifying configuration and improving usability.
- Integrated NirCmd to automatically detect newly connected audio devices and switch the default output to a Virtual Audio Cable, enabling real-time multi-device audio broadcasting with 99% playback stability.

AI Drawer – Integrated AI Platform

scikit-learn, Flask, pandas, API

[Link]

- Developed a unified AI platform that integrates Gemini, Perplexity, DALL·E, and Claude into a single prompt-driven interface for automated task routing and response generation.
- Trained an ML-based domain classifier on 6,000+ labeled records, achieving 65% accuracy across four domains—research, text generation, image creation, and math solving.
- Constructed a Flask-based backend where each user prompt is first categorized using a logistic regression model, then routed to the appropriate AI API via subprocess execution, and finally aggregated for real-time display on the web interface.

Intelligent Mental Health Support Platform

Python, Google Colab, React, Ngrok

[Link]

- Created an AI-powered mental health chatbot by fine-tuning the LLaMA 7B model on the Psychiatrics and Patient Conversation dataset using LoRA and Supervised Fine-Tuning (SFT).
- Trained the model across five major mental health domains—Schizophrenia, Depression, Anxiety, ADHD, and OCD—using curated data and insights from 25+ research papers.
- Developed an interactive web application with a chatbot interface featuring secure authentication and saved conversation history, enabling real-time personalized mental health support.

Experience

SampurnaBharat

Web Developer Intern

Feb 2025 - Apr 2025

Jalgaon, Maharashtra

- Designed and maintained database schemas and RESTful APIs with MongoDB and Node.js, enhancing data efficiency and reliability.
- Collaborated on developing user-facing components such as the profile, cart, and payment interfaces, ensuring responsive layouts and consistent design across devices.
- Optimized overall frontend performance by refactoring code, compressing assets, and improving load speed by 25%.

Leadership / Extracurricular

Team Lead, Content Team

E-Cell VIT

Jan 2024 - Jun 2025

VIT

- Led a 15+ member content team and executed campaigns that increased event engagement by 30%.
- Created and scripted anchor scripts, PR campaigns, and marketing materials aligned with E-Cell's branding strategy.
- Authored official letters and LORs with a professional tone, maintaining accuracy and organizational standards.

Certifications

Oracle Cloud Infrastructure 2025 Certified Data Science Professional [Link]

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional [Link]