

# CHETAN SHARMA

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## EDUCATION

**Vishwakarma Government Engineering College**  
*Computer Engineering - CPI: 8.57*

**2022 – 2026**  
*Ahmedabad, India*

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, C  
**Database Languages:** PostgreSQL, MySQL  
**Frameworks and Libraries:** Scikit-Learn, TensorFlow/Keras, Flask, FastAPI, Pytorch, ReactJS  
**Relevant Course Work:** Advanced Java, ML, DL, DSA, OOP, DBMS, Full Stack Web Dev, OS, Computer Network

## WORK EXPERIENCE

**E-Cell, VGEC**

**Sept 2024 - Present**

*Tech Lead & Event Organizer*

- Led technical operations for E-Cell events, managing registration systems, event coordination tools, and backend support.
- Successfully organized **Founders Week**, a 5-day flagship event featuring 8 distinguished speakers and 200+ daily attendees.

## PROJECTS

**MOSDAC Assist — AI Chatbot for ISRO's Satellite Data Portal**

**Feb 2025 – Mar 2025**

- Built an AI chatbot for retrieving satellite data information by fine-tuning a GPT-based LLM on MOSDAC content and applying advanced NLP techniques.
- Developed a secure, responsive web application using React (TypeScript) and Flask backend, integrated with JWT authentication and PostgreSQL database.
- **Technologies:** Python, GPT (LLM), Flask, PostgreSQL, React, TypeScript, Tailwind CSS, Selenium

**DeepFake Detection System** [\(Live Demo\)](#) [\(Video\)](#)

**Nov 2024 – Jan 2025**

- Developed a Deepfake detection system combining video and audio analysis, trained on FaceForensics++, DFDC-P, DFD, and DEEP-VOICE datasets.
- Achieved 70% detection accuracy by integrating CNN-based spatial features and GRU-based audio anomaly detection using TensorFlow, PyTorch, and Librosa.
- Built a full-stack application with React.js and Node.js (frontend) and Flask APIs (backend)
- **Technologies:** TensorFlow, PyTorch, OpenCV, Librosa, Tortoise-TTS, Flask, React.js, Node.js

**Medical-Ally** [\(Live Demo\)](#) [\(Video\)](#)

**Mar 2024 – Apr 2024**

- Created a health application for secure patient data entry and AI-assisted diagnostics with GPT API integration.
- Designed an intuitive interface for medical history, symptom tracking, and treatment recommendations, secured with secret key authorization for verified medical professionals.
- **Technologies:** React.js, Node.js (Express), MongoDB, GPT API

**Rule Mitra — Rule Expert Chatbot System for Government Officers** [\(Live Demo\)](#) [\(Video\)](#) **Oct 2023 – Nov 2023**

- Developed a rule-based chatbot using PyTorch and Flask to assist government officers in querying complex regulations with contextual accuracy.
- Implemented NLP techniques including tokenization, stemming, and bag-of-words, combined with a feedforward neural network for rule classification and interpretation.
- Enabled multi-language support and designed an intuitive web interface to ensure seamless user interaction and scalable future enhancements.
- **Technologies:** Python, PyTorch, Flask, HTML, CSS, JavaScript

## ACHIEVEMENTS

**Winner at Hack the Spring** organized by ETH India at Gandhinagar. (Devfolio) (Certificate)

**Winner of the New India Vibrant Hackathon 2023**, organized under **SSIP 2.0** at **PDEU**. (Certificate)

## CERTIFICATES

**Participated in VAANI Workshop 2024** on AI for Biomedical Imaging and Healthcare at **PDEU**. (Certificate)

**Completed The Complete Full-Stack Web Development Bootcamp** by Dr. Angela Yu. (Certificate)