

Sujal Vachhani

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EDUCATION

C.K. Pithawalla College of Engineering & Technology

Surat, Gujarat

Bachelor of Engineering in Computer Science; CGPA: 8.2/10

Aug 2022 – May 2026

- **Relevant Coursework:** Database Management Systems, Data Structures & Algorithms, Natural Language Processing, Object-Oriented Programming, Compiler Design, Microprocessor Interfacing, Internet of Things, Cloud Computing, Web Development

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript

Web Technologies: HTML, CSS, JavaScript, Flask, RESTful APIs

Database Management: SQL, MongoDB, PostgreSQL, SQLite

Data Science & ML: Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, YOLOv8

Tools & Technologies: Git, Google Speech-to-Text API, Jupyter Notebook, Google Colab

PROJECTS

AI CCTV Surveillance System | *Flask, Python, YOLOv8, OpenCV*

Jan 2025

- Developed Flask-based web application for real-time helmet violation detection using YOLOv8 deep learning model with OpenCV integration
- Engineered automated alert system with real-time video stream processing, image capture, and violation logging capabilities
- Built comprehensive dashboard with data visualization charts and PDF report generation from logged security alerts

SujalNotes — Secure Notes Platform | *Flask, Python, SQLite, HTML, CSS, JavaScript*

Dec 2024

- Created secure engineering notes platform with protected PDF streaming, user authentication, and payment verification using Flask and SQLAlchemy
- Implemented screenshot-protected PDF viewer with real-time content hiding to prevent unauthorized copying and distribution
- Deployed production application on Render with environment-based configuration and automated CI/CD through GitHub integration

CKPCET Chatbot | *Flask, Python, JavaScript, HTML, CSS*

Sep 2024

- Built interactive AI chatbot to provide instant responses to student queries about campus facilities, academics, and administrative processes
- Designed responsive web interface with intuitive UX using modern HTML, CSS, and JavaScript for seamless user interaction
- Implemented Flask backend with intelligent routing and natural language processing for accurate query handling

CERTIFICATIONS

SQL (Basic) Certificate – HackerRank | Oct 2024 | Credential ID: 6409306D8FA4

AI for Manufacturing Certificate Course – Intel Corporation | Jul 2024 | Credential ID: AI4MGTUS1507250374

Responsive Web Design – freeCodeCamp | Mar 2024

ADDITIONAL SKILLS

Soft Skills: Team Collaboration & Leadership, Technical Troubleshooting, Problem Solving, Communication

Languages: English (Fluent), Hindi (Fluent), Gujarati (Native)