

# MADHAV GOHEL

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## EDUCATION

**Bachelor of Technology - BTech, Information Technology | CSPIT, Charusat University**

**September 2023 – July 2026**

- Coursework: Advanced Algorithms, Database Management Systems, Artificial Intelligence, Operating Systems, Software Engineering

**Diploma in Computer Engineering | Gyanmanjari Diploma Engineering College, GTU**

**September 2020 – July 2023**

- Coursework: Data Structures, Mobile Computing, Network Security, Web Development

## EXPERIENCE

**Summer Intern | DSU INFOTECH | Vadodara, Gujarat ( Remote )**

**May 2024 – June 2024**

- **Engineered** and optimized web scraping pipelines using Python, leveraging libraries such as BeautifulSoup and Selenium for robust data extraction and transformation across diverse web structures.
- **Integrated** scraped data into relational databases and NoSQL stores, ensuring seamless data accessibility for downstream analytics and machine learning models.

**Freelance Developer**

**May 2022 – January 2023**

- **Developed** scalable web applications using Python and Flask, designing RESTful APIs and integrating them with front-end frameworks to deliver seamless user experiences.
- **Created** and deployed scalable backend systems, utilizing Flask with SQLAlchemy for efficient database management and ensuring robust data integrity across MySQL or PostgreSQL databases.

## PROJECTS

**Urban Guide**

- Built an AI-powered city assistant using LLM, RAG, Ollama, and agents, offering real-time, multilingual information on city services, landmarks, and events.
- Integrated a vector database for efficient data retrieval, enabling seamless, conversational user interactions with up-to-date information. Significantly

**Two-Wheeler crash detection with SOS & location tracking**

- Enhanced rider safety by detecting accidents using sensors and algorithms, sending SOS alerts and real-time location to emergency contacts for timely assistance
- Optimized algorithms to improve the accuracy of crash detection, resulting in a 30% decrease in false positives

**Movies in the City**

- Developed an API providing information about movies currently showing in a city in JSON format
- Engineered a scalable web application using Python and Flask, incorporating a robust web scraper that tripled data acquisition efficiency

**Covid Dashboard**

- Created a dashboard displaying current COVID-19 metrics of the country, including infection rates, recovery rates, and vaccination progress
- Data was scraped from other platforms and presented in interactive graphs using Python and JavaScript also integrated real-time updates to ensure the dashboard always reflects the most current data

## ACHIEVEMENTS

- **Certifications:**
  - Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate
  - Operating System Fundamentals NPTEL
  - Python for Data Science NPTEL
- **Hackathons:** SSIP GUJARAT HACKATHON 2022 Finalist
- **College Fests:** Showcased Project in an annual College Fest
- **Volunteering:** Smart India Hackathon 2024 Institute Co-ordinator, AWS SCD Co-ordinator

## SKILLS

- **Languages:** Python, Go, Java , JavaScript, C++
- **Operating Systems:** Linux, Windows, Mac
- **Databases:** SQL, MySQL, PostgreSQL, MongoDB
- **DevOps:** Git, GitHub, Docker