

MADHAV GOHEL

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EDUCATION

Bachelor of Technology - BTech, Information Technology CSPIT, Charusat University	September 2023 – July 2026
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Coursework: Data Structures, Mobile Computing, Network Security, Web Development	

EXPERIENCE

Summer Intern DSU INFOTECH Vadodara, Gujarat (Remote)	May 2024 – June 2024
<ul style="list-style-type: none">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.	

PROJECTS

AI Agents OS (Ongoing)	<i>Python, Ollama, Vector DB, LLMs, MCP</i>
<ul style="list-style-type: none">Redefining human-computer interaction using autonomous AI agents to execute tasks without human intervention.Implements LLMs, RAG, and one-time code generation architecture for performing tasks like automation, education, data processing, and content creation with context-aware and personalized execution all using natural language.	
Urban Guide	<i>Python, Ollama, Vector DB, LLMs</i>
<ul style="list-style-type: none">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	<i>IOT, ESP8266, GPRS, SMS</i>
<ul style="list-style-type: none">Enhanced rider safety by detecting accidents using sensors and algorithms, sending SOS alerts and real-time location to emergency contacts for timely assistanceOptimized algorithms to improve the accuracy of crash detection, resulting in a 30% decrease in false positives	
Movies in the City	<i>Python, Flask, BeautifulSoup</i>
<ul style="list-style-type: none">Developed an API providing information about movies currently showing in a city in JSON formatEngineered a scalable web application using Python and Flask, incorporating a robust web scraper that tripled data acquisition efficiency	
Covid Dashboard	<i>Python, Flask, BeautifulSoup, Javascript</i>
<ul style="list-style-type: none">Created a dashboard displaying current COVID-19 metrics of the country, including infection rates, recovery rates, and vaccination progressData 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	

CERTIFICATIONS & ACHIEVEMENTS

Certifications:	
Supervised Machine Learning: Regression and Classification	March 2025 Coursera
Google Cloud Career Launchpad Generative AI track	Jan 2025 Google Cloud
Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate	Aug 2025 Oracle Cloud Infrastructure
Operating System Fundamentals	Jul-Aug 2024 NPTEL
Python for Data Science	Jul-Oct 2024 NPTEL
Volunteering:	
Odoo x Charusat Hackathon Co-ordinator	1,2 March 2024
AWS SCD Co-ordinator	27 Sep 2024
<ul style="list-style-type: none">Gen AI Avatar booth	
Smart India Hackathon 2024 Institute Co-ordinator	9 Sep 2024

Achievements:	
Poster Presentation: For Urban Guide project, Hackathons: SSIP GUJARAT HACKATHON 2022 Finalist, College Fests: Showcased Project in an annual College Fest	

SKILLS

Programming Languages: Python, Java , JavaScript, C
Databases: SQL, MySQL, PostgreSQL, MongoDB
DevOps: Git, GitHub, Hugging Face, Docker, AWS

SOFT SKILLS

Soft Skill: Adaptability, Problem-Solving
Languages: English, Hindi, Gujarati