Tanvi Patel

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EDUCATION

- **Charotar University of Science and Technology** *August 2022 - June 2026*
  BSC.IT (Information Technology) Anand, Gujarat
  ◦ CGPA: 8.4/10

EXPERIENCE

- **Utilyze** *Sep 2025 - Dec 2025*
  Software Developer Intern Texas, USA
  ◦ Designed data pipelines and detected anomalies using high-frequency water leak sensor data, improving system efficiency.
  ◦ Coordinated with engineering leads, strengthening technical skills in data processing, automation, API integration, and project management.

- **Infotact** *May 2025 – July 2025*
  Data Science Intern Bangalore, India
  ◦ Designed and deployed a movie recommendation system using content-based filtering with NLP techniques in Python.
  ◦ Engineered feature extraction from movie metadata using TF-IDF vectorization and cosine similarity.
  ◦ Built a lightweight Flask web application for the recommender system and deployed the frontend using HTML, CSS, and JavaScript.

- **InternPe** *June 2024 - July 2024*
  Web Developer Intern Jaipur, Rajasthan
  ◦ Gained hands-on experience with HTML, CSS, and JavaScript to design and develop user interfaces for web applications.
  ◦ Developed a fully functional blog platform with user authentication, post creation, editing, and deletion.

SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, PHP, SQL, Embedded C
- **Web Development:** HTML, CSS, JavaScript, Flask, Streamlit, REST API Integration
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, NLTK, XGBoost, Sentence Transformers, Optuna
- **AI & LLMs:** LangChain, Groq LLM API, NLP, Embeddings, Content-Based Recommendation Systems

PROJECTS

- **AI Chatbot for College Queries**
  Tools: Python, HTML, CSS, REST API Integration, JavaScript, Flask, LangChain for AI Integration, Groq LLM API
  ◦ LangChain Groq LLM Integration: Integrated LangChain with Groq LLM API to provide accurate and context-aware responses.
  ◦ Full-Stack Development: Designed a responsive frontend using HTML, CSS, and JavaScript, and connected it to a Flask backend with REST API integration.

- **ResolveIt: Dispute Resolution Platform**
  Tools: JavaScript, Node.js, MongoDB, HTML, CSS, REST API Integration, JWT Authentication, Mongoose
  ◦ Case Management System: Built a structured platform for dispute registration, evidence upload (images, videos, audio), and opposite party information handling.
  ◦ Designed a secure admin interface with JWT authentication, real-time case updates, filtering, panel creation, and agreement generation.

- **Movie Recommendation System**
  Tools: Python, Pandas, NumPy, Scikit-learn, Flask, HTML5, CSS3, JavaScript
  ◦ Built a content-based movie recommendation system using NLP techniques such as TF-IDF vectorization and cosine similarity to suggest similar movies.
  ◦ Developed a Flask-based web application with a responsive frontend using HTML, CSS, and JavaScript for user interaction.