

Devansh Deshpande

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Education

Bachelor of Technology in Computer Science and Engineering
Nirma University, Gujarat

Expected May 2027
CGPA: 8.7 / 10.0

Technologies

Languages: C++, JavaScript, TypeScript, Python

Backend: Node.js, Express

Database: MongoDB, MySQL

Frontend: React, Vite, Bootstrap

Tools: Git, GitHub, Postman, Render, Vercel

Projects

Feather Scan: Multi-Model Image Classification Platform | *React, Express, TypeScript, FastAPI*

- Designed a distributed 3-tier architecture (React client, Express BFF, FastAPI inference service) to ensure modularity and separation of concerns.
- Engineered secure REST APIs with Firebase Authentication, ownership enforcement, and Zod schema validation.
- Implemented pagination, indexing, and optimized MongoDB queries for performance and reliability.
- Integrated 3 pretrained image classification models (Hugging Face, BioCLIP) behind a unified backend abstraction layer.
- Tested backend APIs with Jest and Supertest (60%+ coverage) and automated CI using GitHub Actions.

SpeakSQL: Natural Language to SQL Web App | *React, Express, MySQL, MongoDB*

- Designed a query-processing pipeline to translate natural language into validated SQL with structured error handling.
- Implemented JWT-based authentication with role-based access control.
- Added validation and permission checks to prevent unsafe query execution.
- Deployed the application on Vercel.

AI Legal Assistant | *React, Node.js, MongoDB*

- Engineered a full-stack voice-based conversational web application for legal Q&A using React and Node.js.
- Integrated speech-to-text (Deepgram) and Gemini API for voice-based query handling and contextual responses.
- Designed REST APIs with persistent conversation storage and user preference management using MongoDB.
- Implemented backend logic to maintain conversational context across user sessions.

Achievements

- Secured Top 9 position (out of 700+ participants) at Intellihack (DAU), a national-level cybersecurity hackathon by creating a log-based threat detection system.

Coursework & Technical Focus

- **Coursework:** Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems (Foundations)
- **Technical Focus:** Full stack development, REST API design, authentication & authorization, automated testing
- **DSA:** Solved 450+ DSA problems across LeetCode and Codeforces focusing on arrays, strings, trees, graphs, and dynamic programming.