Devansh Deshpande

India | devansh436@gmail.com | Portfolio | LinkedIn | GitHub

Education

Bachelor of Technology in Computer Science and Engineering   Expected May 2027
Nirma University   CGPA: 8.69

Technologies

Languages: C++, Python, JavaScript, TypeScript

Backend: Node.js, Express

Frontend: React, Vite, MUI, Bootstrap

DBMS: MongoDB (Atlas), MySQL (Aiven Cloud)

Dev Tools: Git, GitHub, Postman, Render, Vercel

Projects

Multi-Model Image Classification Platform | *React, Express, TypeScript, FastAPI*
- Engineered a 3-tier full-stack image classification system using React, Express (TypeScript), and FastAPI.
- Implemented Firebase Authentication with protected routes and token-based access control.
- Integrated 3 pretrained ML models (Birds, Plants, Animals) via Hugging Face and BioCLIP under a unified API.
- Supported async image uploads up to 10 MB with CORS-safe inter-service communication.
- Implemented a Backend-for-Frontend (BFF) layer to centralize validation, routing, and ML orchestration.

Natural Language to SQL Web App | *React, Express, MySQL, MongoDB*
- Engineered a system to convert natural language queries into validated SQL for library operations.
- Implemented JWT-based authentication with role-based access control, query sanitization, and permission checks.
- Built an API layer to validate generated queries before execution against the database.
- Deployed the frontend on Vercel with optimized query handling and response times.

AI Legal Assistant | *React, Node.js, MongoDB*
- Engineered a full-stack 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.

Relevant Coursework & Interests

- Data Structures and Algorithms, Database Management Systems, Object Oriented Programming
- Strong interest in backend architecture, API design, and AI-assisted systems.