

# Sparsh Sharma

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## Education

Ajay Kumar Garg Engineering College, B.Tech in Computer Science (AKTU)  
GAIL DAV Public School, Higher Secondary Education (CBSE)

Oct 2022 – July 2026.  
July 2022

## Technologies

**Languages:** JavaScript, Python, SQL

**Frontend:** React, TailwindCSS

**Backend:** Node.js, Express, REST APIs, WebSockets

**Database:** MongoDB, PostgreSQL

**DevOps & Tools:** Git, Postman, AWS / Vercel

**AI/ML:** PyTorch, scikit-learn, Pandas, NumPy, Kaggle (Model Training)

## Certifications

- **The Web Developer Bootcamp 2025** – Udemy (May 2025) [[View Certificate](#)]
- **Web Development Course 2025** – AppWars
- **Learn Artificial Intelligence with TensorFlow** – Infosys Springboard (Apr 2025)
- **Introduction to Cyber Security** – Cisco (Feb 2025) [[View Credential](#)]

## Projects

### Real-Time Small-Cap Stock Screener

Stock-Screener

- Built a real-time small-cap stock screener with filters (Gap, RVOL, Halt Detection, Float Rotation) using the **Alpaca API**.
- Engineered a full-stack solution with a **Node.js** and **WebSocket** backend to stream live market data, feeding a **React** frontend via **Socket.IO** for dynamic visualization.

### Real-Time Collaborative Code Editor with Live Preview

Code-Collab

- Built a full-stack collaborative editor with a **React** & **TailwindCSS** frontend and a **Node.js** & **Redis** backend for real-time chat and session management.
- Implemented a secure, in-browser live preview and file explorer using the **WebContainer API** for sandboxed code execution.

### Full-Stack E-Commerce Website | MERN, Razorpay

E-commerce

- Developed a full-stack e-commerce app using the **MERN stack** (**MongoDB**, **Express**, **React**, **Node.js**) to handle user authentication, cart, and order management.
- Integrated the **Razorpay API** for secure online payments and built a responsive admin dashboard with **React** and **TailwindCSS** for analytics and product control.

### Multimodal AI for Disease Diagnosis | PyTorch, CNN, MLP, SHAP, Grad-CAM

Multimodal-Diagnosis

- Developed a **dual-stream CNN-MLP model** in **PyTorch**, using **Pandas** and **NumPy** to fuse chest X-rays with patient metadata for disease prediction.
- Integrated **Grad-CAM** & **SHAP** (visualized with **Matplotlib**) for explainability and used **Scikit-learn** for validation on the **Kaggle** GPU environment, optimizing for CPU deployment.

## Achievements & Extracurricular Activities

- Solved 150+ coding problems on [LeetCode](#) to strengthen data structures and algorithms.
- Participated in college-level hackathons as part of a 3-member team:
  - Built a real-time collaborative coding platform using the MERN Stack.
  - Presented the working prototype and live demo to a panel of judges.