Gautam Sharma

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About Me

A third-year B.Tech Computer Science student at MIT World Peace University. Passionate about technology and problem-solving, I have a keen interest in data structures, algorithms, and software development. I am an active member of HackX, where I contributed to the technical and design team for events like Capture The Flag (CTF) competitions and webinars for my college. Always eager to learn and explore new technologies. I am dedicated towards enhancing my skills and applying them to real-world projects while fostering a collaborative tech community.

Education

MIT World Peace University, B.Tech in Computer Science — August 2023 – Present

- GPA: 7.9/10.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory
- **Certificates:** ICT4SD, Oracle Cloud Infrastructure

Projects

Movie Search and Discovery App

- Built a responsive movie search and discovery web app using React (Vite) and TMDB API with debounced search and real-time results.
- Integrated Appwrite backend to store trending movies and track search analytics.
- Deployed the application on Vercel with secure environment variable management and optimized loading states.

Query Optimiztion

- Developed a query optimization model that compares the execution time and cost of two given SQL queries.
- Utilized MySQL for query processing and optimization analysis.
- Built a frontend interface for user input and result visualization.
- Improved query performance evaluation through execution plan analysis.

Fire and Smoke detection System

- Built a Fire and Smoke Detection app using FastAPI + React with YOLOv8 for real-time hazard detection.
- Integrated REST APIs and CORS to connect frontend uploads with backend AI inference.
- Used OpenCV for image processing and served annotated results via FastAPI static files.
- Designed a user-friendly interface for uploading images and visualizing detection results interactively.

Technologies

Programming Languages: C++, C, SQL, Python, Typescript
Web Technologies: HTML, CSS, JavaScript, BootStrap
Frame Works: React.js, Next.js, Express.js, Node.js, Tailwind CSS, GSAP, FastAPI
Miscellaneous: Git, Docker, MySQL, MongoDB, ChromaDB, Pinecone, PowerBi, Tableau