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

- Developed a debounced search, responsive movie search and discovery web application with React (Vite) and TMDB API. and real-time results
- Added the Appwrite backend to save the trending movies and monitor the analytics of the search.
- Installed the app on Vercel using secure environment variables and performing optimized loading states.

Query Optimization

- Created a query optimization model, which would compare the cost and execution time of two specified SQL queries.
- Used MySQL to process query and provide the analysis of optimization.
- Developed a front end to enter information and display the results.
- The analysis of execution plans can be used to evaluate query performance.

Fire and Smoke detection system

- Fully constructed a Fire and Smoke Detection application based on FastAPI and React with YOLOv8 to identify all hazards in real-time.
- REST APIs and CORS Built-in to bridge the frontend uploads with AI inference on the backend.
- Image processing with OpenCV and provided the results with annotations in FastAPI as the form of static files.
- Developed an easy to use interface to upload images and view the results of the detection process in real-time.

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