ADARSH KUMAR

adarshgupta5002@gmail.com LinkedIn Portfolio GitHub

Education

Vellore Institute of Technology, Bhopal *CGPA: 7.6*
Bachelor of Technology in Computer Science and Engineering *Graduating: July 2026*

Technical Skills

Programming Languages: Java, JavaScript
Web Technologies: HTML, CSS, RestAPI
Frameworks: ReactJS, NodeJS, Express
Database/Platform: MongoDB/Linux(Ubuntu)

Experience

NITI Aayog, Government of India, New Delhi
Intern – Security & Law Vertical

- Compiled **4 in-depth reports** from **500+ datasets**, Streamlined data analysis, leading to a **25% faster decision-making** process.
- Coordinated efforts with **10+ ministries**, reducing data inconsistencies by **20%** and facilitated inter-ministerial coordination, reducing data discrepancies by **20%**.
- Authored a **50-page policy framework**, influencing **2 national strategic initiatives**.
- Championed the coordination of time-sensitive cybersecurity research projects, streamlining communication between teams to achieve project completion **20% faster** than previous timelines while ensuring data accuracy and reliability.

Projects

Full Stack Portfolio Website [Link to Project]
Technologies: ReactJS, JavaScript, MySQL, PHP, HTML, CSS, Bootstrap

- Revolutionized user interface development with ReactJS components, shortening development cycles by two weeks and improving **cross-browser compatibility** testing scores **by 15%**, resulting in 5-star ratings from **90% of beta users.**
- Optimized **MySQL queries**, improving database performance by 40%, and streamlined **server-side operations** with PHP, reducing page load times by 25%.
- Implemented **custom APIs** to enable real-time communication between front-end and back-end systems.
- Tested cross-browser compatibility on **5+ platforms** to ensure reliability, resolving compatibility issues to deliver a reliable and **scalable user experience.**

Web-Based Face Authentication System [Link to GitHub]
Technologies: Python, OpenCV, Flask, MERN Stack

- Developed a **robust facial recognition system** achieving **98% accuracy**, enhancing **authentication security** and reducing fraudulent access attempts by **25%**.
- Improved user login speed by **40%** through algorithm optimizations, delivering a faster and more **seamless user experience**.
- Optimized computational efficiency by reducing system processing time by **15%**.
- Collaborated in a **team** to design, implement, and test the system, applying **agile project management** to meet strict deadlines effectively.

AlgoTasker
Technologies: MERN, Axios, Topological Sort, Queue, Priority Queue, Graph

- Developed and deployed a MERN-based Task Scheduling System integrating **Topological Sort (DFS/BFS)**, **Min-Heap (SJF)**, and **Round Robin algorithms** using Queue to efficiently process **up to 10,000 tasks** with dependency management..
- Integrated **RESTful APIs** with Axios for real-time task scheduling, highly-efficient execution time within **O(V + E) complexity**.