

# Adarsh Kumar

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## EDUCATION

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science and Engineering

CGPA: 7.6 | Graduating: July 2026

## WORK EXPERIENCE

NITI Aayog, Government of India, New Delhi

[Intern – Security & Law Vertical](#) | October 2024 – December 2024

- 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%**.
- Identified critical gaps in the cybersecurity policies of **15+ government agencies**.
- 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

Real-Time Cloud Computing Resource Optimizer | [\[Link to Project\]](#)

Technologies: Java/Node.js, AWS, Kubernetes, CloudWatch, MongoDB

- Designed a **real-time resource allocation system** for cloud computing, improving workload distribution **by 35%**.
- Integrated of Kubernetes and Docker to streamline container management, resulting in a **20% reduction** in deployment overhead while improving system uptime visibility for real-time performance tracking
- Implemented **predictive scaling algorithms** using Python, reduced cloud costs **by 30%** through predictive scaling algorithms during peak usage.
- Designed a **Flask-based dashboard** to monitor and analyze resource usage in real time, enhancing operational visibility.

Full Stack Portfolio Website | [\[Link to Project\]](#)

Technologies: ReactJS, JavaScript, MySQL, PHP, HTML, CSS, Bootstrap

- Built **dynamic ReactJS UI** components with improved user engagement., while integrating Bootstrap for a consistent, cross-platform design.
- 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.

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **Frameworks:** ReactJS, NodeJS, Express
- **Databases:** MongoDB, MySQL

## CERTIFICATIONS & ACHIEVEMENT

[The Bits & Bytes of computer networking](#)  
[Asia AI Odyssey Challenge](#)  
[College Hackathons](#)