

AMAN KUMAR

📞 +91 9466460761 | ✉️ officialamankundu@gmail.com

🌐 [LinkedIn](#) | 🏠 [GitHub](#) | ⚡ [LeetCode](#) | ⚡ [GFG](#)
⚡ [Codeforces](#) | ⚡ [Codechef](#)

Professional Summary

Full-stack software engineer pursuing B.Tech in Computer Science at IIIT Raichur. Proficient in MERN stack architecture, machine learning algorithms, and scalable system optimization. Smart India Hackathon 2024 finalist with expertise in delivering enterprise-grade solutions. Demonstrated leadership in cross-functional teams while achieving 95% project delivery success rate across 6+ technical initiatives.

Technical Projects

NetworkQ - Enterprise Networking Platform | *React.js, Node.js, MongoDB, JWT, Tailwind CSS* **Aug 2024 – Present**

- Architected LinkedIn-inspired professional platform serving 500+ registered users with real-time messaging capabilities
- Engineered responsive React.js frontend utilizing protected routing, context-based state management, and mobile-first approach
- Orchestrated secure JWT authentication workflow achieving 99.9% uptime and zero security breaches
- Constructed RESTful API infrastructure using Express.js and MongoDB, handling 1000+ daily API requests efficiently
- **Repository:** [GitHub](#) | **Live Demo:** [Production App](#)

Hospitality Marketplace - Full-Stack Solution | *Node.js, Express, MongoDB, EJS* **Mar 2024 – Jun 2024**

- Orchestrated comprehensive booking ecosystem supporting 100+ concurrent users with dynamic pricing algorithms
- Crafted sophisticated RESTful API architecture with advanced filtering, geolocation search, and analytics dashboard
- Established administrative control panel for property oversight and integrated secure payment gateway processing
- **Repository:** [GitHub](#) | **Access:** [Admin Portal](#) & [User Interface](#)

AI-Powered Security Monitoring System | *Python, OpenCV, Face Recognition, Telegram API* **Aug 2024 – Nov 2024**

- Pioneered real-time surveillance solution utilizing facial recognition algorithms achieving 95% accuracy benchmark
- Integrated Telegram notification service for instant alerts and established cloud-based storage infrastructure
- Enhanced detection algorithms through machine learning optimization, reducing false positives by 40%
- **Repository:** [GitHub](#) | **Demo:** [Live Results](#)

Computer Vision Traffic Analytics | *Python, YOLOv3, OpenCV, Tkinter* **Jan 2024 – May 2024**

- Constructed intelligent transportation monitoring solution using YOLOv3 object detection with 92% precision rate
- Accelerated tracking algorithms by 30% through centroid-based optimization and spatial filtering techniques
- Fashioned intuitive GUI interface enabling real-time vehicle analytics and comprehensive traffic pattern analysis
- **Repository:** [GitHub](#) | **Demo:** [Live Results](#)

Productivity Management Dashboard | *Node.js, Express, MongoDB, EJS* **Nov 2023 – Dec 2023**

- Delivered responsive task coordination platform featuring complete CRUD operations and user authorization
- Produced streamlined interface with drag-and-drop functionality and automated deadline notification system
- **Repository:** [GitHub](#)

Core Competencies

Programming Languages: C, C++, Python, JavaScript, SQL, TypeScript

Frontend Frameworks: React.js, HTML5, CSS3, Tailwind CSS, EJS, Bootstrap, Responsive Web Optimization

Backend Technologies: Node.js, Express.js, RESTful API Architecture, JWT Authentication, Microservices

Database Systems: MongoDB, MySQL, Database Schema Optimization, Query Performance Tuning

AI/ML Technologies: OpenCV, YOLOv3, NumPy, Pandas, Facial Recognition, Computer Vision, DLib

DevOps & Tools: Git Version Control, GitHub CI/CD, Postman API Testing, VS Code, Linux Administration, Docker Containerization

Software Engineering: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS, System Architecture, Distributed Computing

Academic Background

Indian Institute of Information Technology Raichur

Raichur, Karnataka

Bachelor of Technology in Computer Science and Engineering

Aug 2023 – May 2027

- **Cumulative GPA:** 8.3/10.0 (First Class with Distinction)
- **Core Curriculum:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Software Engineering, Machine Learning Fundamentals

Recognition & Certifications

Smart India Hackathon 2024 Finalist — DRDO Interview Simulation Project (National Software Competition)

Competitive Programming Excellence: Achieved Global Rank under 3000 across multiple LeetCode and Codeforces competitions

Algorithm Mastery: Successfully solved 700+ Data Structure problems (LeetCode: 350+, GeeksforGeeks: 300+, Codeforces: 50+)

GeekStreak2024 Recognition: Top 5% performer in Deutsche Bank + GeeksforGeeks collaborative programming challenge

Technical Leadership: Directed 3-member machine learning team for traffic optimization academic project (Spring 2024)

Cybersecurity Expertise: Certified in Ethical Hacking and Penetration Testing Methodologies — [View Credential](#)