

# S A Abhishek Kumar

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🐙 [github.com/ABHISHEKGITHUB23424](https://github.com/ABHISHEKGITHUB23424)    🔑 [yescode4534as](#)

## INTERNSHIP

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**Full-Stack & AI Systems Intern : Computer Vision • Flutter • Backend (Python Inference) • System Architecture**, *Mobile App COE Chennai Institute of Technology* Present

- Built an end-to-end AI-powered prototype system (frontend + backend + AI)
- **Architected the communication** pipeline between the Computer Vision model and the Flutter mobile application
- Developed a **video-based inference pipeline** using uploaded **CCTV footage** to simulate real-time occupancy detection
- Implemented **frame-wise processing** and person tracking using **DeepSORT** to count individuals accurately
- Optimized model inference to **reduce latency** in near real-time scenarios
- Designed a **scalable PostgreSQL database schema** for future deployment and historical 'Rush Hour' analytics
- Planned the **system architecture for scalable**, multi-user usage when integrated with live camera feeds

## SCHOLASTICS

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**BE-Computer Science**, *Chennai Institute of Technology (Autonomous)* 2024 – 2028  
Affiliated to Anna University 8.25 (Till 3rd Sem)

## SKILLS

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### AI/Intelligent Systems

- **AI Model Optimization:** Reduced inference latency in DeepSORT computer vision pipelines for real-time mobile deployment
- Deep Learning (Model Inference & Optimization – Basic)
- Real-time AI Monitoring Systems
- Data Processing Pipelines

### Cloud & IoT

- Google Cloud Platform (Skill Badges)
- Cloud-based AI Services
- IoT Integration (CCTV Cameras as data source)
- Scalable System Design (Basic)

### Full-Stack Development

- **Frontend:** Flutter, HTML, CSS, JavaScript, React.js
- **Backend:** Node.js, REST API Integration
- **Databases:** SQL, PostgreSQL
- End-to-End Application Development

### Programming Languages

- Python, C, C++, Java, Dart

## HOBBIES

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- Tree Plantation at Parks, School, Roadside
- Volunteer for club activities, to lead a organisation as a leader

## PROJECTS

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**1. Campus Connect - Real-Time Lab Occupancy App (Flutter, Dart, Deep Learning)**, *Internship-based real-time project with 4 core modules: Lab Occupancy, Seating Arrangement, Timetable, Attendance.*

- Built to check lab availability instantly through the mobile app.
- Used Roboflow Object Detection Model + Deep Learning to detect students inside the lab.
- Integrated **DeepSORT** for tracking people across frames to count occupancy accurately.
- App developed using **Flutter & Dart**.
- End-to-end product development
- Backend APIs
- Cloud-ready architecture
- **Project:**

**Link[BACKEND]:**<https://github.com/shreerahulsgit/Backend> 

**LINK[FRONTEND]:**<https://github.com/shreerahulsgit/FRONTEND> 

**2. Web-Based Travel Booking Platform (Frontend Prototype)**

Developed a responsive frontend interface for a bus travel booking system using **HTML5, CSS3, and JavaScript**. Focused on UI/UX design principles to ensure a seamless user experience

**Project link :** <https://github.com/ABHISHEKGITHUB23424/Project-/blob/main/NEW%20TRAVELS.html> 

## CERTIFICATION

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| • (1) Completed Python essentials 1 and 2 in Cisco        | • (2) Completed C essentials 1 in Cisco            | • (3) Completed Ethical hacking course in AICTE platform                                     |
| • (4) Completed basics of MongoDB course MongoDB platform | • (5) Introduction to Java Programming - Sololearn | • (6) Google Cloud Arcade Game Completed 19 Google Cloud Skill Badges (Awaiting certificate) |

## ACHIEVEMENTS

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- **LeetCode:** 184 problems solved
- **CodeChef:** 75 problems solved
- **SkillRack:** 72 problems solved
- **GitHub:** Multiple full-stack & AI-based projects