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INTERNSHIP

Full-Stack & AI Systems Intern : Computer Vision • Flutter • Backend (Python)

Present

Inference) • System Architecture, Mobile App COE Chennai Institute of Technology

- 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

BE-Computer Science, Chennai Institute of Technology (Autonomous)

2024 – 2028

Affiliated to Anna University 8.25 (Till 3rd Sem)

SKILLS

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

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

Cloud & IoT

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

HOBBIES

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

PROJECTS

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

- (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

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