SURAJ KUSHWAHA

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Experience

Assistant Software Developer - IT (R&D Division)   Aug 2024 - Present
Arohan Infocare Pvt Ltd   *Noida*

- Developed scalable REST APIs for ATMS aligned with NHAI policies, covering IP-based device monitoring, user management, and authentication workflows
- Built APIs for TMS Audit Module enabling compliance validation and transaction monitoring
- Designed Lane Status Display Unit (LSDU) for real-time health tracking of IP-based devices with alerting mechanisms
- Trained ML models (7+ AI use cases) for traffic violation detection including wrong-side driving, congestion count, over-speeding, animal intrusion, and debris detection achieving 90%+ accuracy
- Implemented ANPR (Automatic Number Plate Recognition) system for automated vehicle identification

Python Developer (Trainee)   Jan 2024 - Jul 2024
Bit Map Technology   *Pune*

- Built ML classification model for waste sorting (plastic, paper, glass, trash) using Python and scikit-learn
- Collaborated with senior developers to understand API integration workflows and end-to-end project delivery
- Strengthened skills in .NET framework, SQL Server, and agile SDLC practices

Teaching Assistant   Oct 2020 - Mar 2021
Coding Ninjas   *Delhi*

- Resolved 1500+ technical queries for 50+ students in C++ and DSA
- Mentored students in debugging, code optimization, and project completion strategies

Projects

Advanced Traffic Management System (ATMS) | *C#, ASP.NET Core, SQL Server, Blazor, SignalR, ML*   Ongoing

- Developing real-time traffic dashboard with violation detection, CCTV feeds, ANPR, and VMS (Variable Message Sign) integration for live traffic updates
- Implemented computer vision algorithms achieving 90%+ accuracy in detection tasks

Network Monitoring System (NMS) | *C#, ASP.NET Core, SQL Server, Blazor*   2025

- Designed system to monitor real-time device health of IP-based devices, generating alerts for anomalies

Toll Management System - Audit Module | *C#, ASP.NET Core, SQL Server, Blazor*   2024-25

- Developed audit workflows for toll transactions with compliance reporting and anomaly detection

Automated Waste Classification System | *Python, Flask, ML, REST API*   2024

- Designed ML pipeline for multi-class waste classification with high accuracy

Technical Skills

Languages: C#, Python, C++, JavaScript, SQL, HTML, CSS
Frameworks: ASP.NET Core, MVC, Blazor, Flask, Entity Framework Core (ORM), Bootstrap
Databases: SQL Server, MySQL, Stored Procedures, Functions, Query Optimization
Machine Learning: Scikit-learn, Computer Vision, Model Training, Feature Engineering
Web Services: REST APIs, Microservices, API Testing
Tools: Visual Studio, VS Code, Git, GitHub, Postman, Android Studio
Concepts: OOP, SDLC, System Design

Education

MCA   Aug 2022 - May 2024
PCCOE, Pune University   *77.80% (8.19 CGPA)*

B.Sc. (Hons.) Electronics   May 2018 - May 2021
Hansraj College, Delhi University   *64.69% (6.81 CGPA)*

12th & 10th
T N Janta Intermediate College, Deoria (UP)   *12th: 90% & 10th: 84.67%*

Achievements & Certifications

AIR 108, 99.46 Percentile in MAH MCA-CET 2022
Winner -Western Group Dance Competitions at IIT Bombay, FMS Delhi, Punjab University
Certifications: Full Stack Web Development (Coding Ninjas), Data Structures & Algorithms in C++ (Coding Ninjas), Machine Learning Crash Course by Google, Machine Learning Workshop (IIT Bombay)