GYAN PRAKASH GUPTA
Software Engineer |

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Objective

Software Engineer with 2+ years of experience in back-end development, AI solutions, and traffic management systems. Skilled in Python, Django, REST APIs, C#, WPF, ASP.NET, SQL Server, and MySQL. Passionate about building smart and scalable applications for real-time traffic monitoring. Strong problem-solving skills with an interest in AI and IoT.

Professional Experience

Software Engineer | Vulcan Advance Intelligence Computing Pvt. Ltd.

Feb 2023 – Present

- Designed and developed Smart Road VMS (Variable Message Sign) and VASD (Vehicle-Activated Speed Display) systems to improve traffic safety.
- Integrated road camera systems with databases for real-time traffic monitoring and automated data logging.
- Developed a desktop application for VMS using Core Python ensuring seamless data communication.
- Implemented real-time RADAR-based vehicle detection and automated license plate recognition (ANPR) for efficient traffic management.

Technical Skills

Programming Languages: Python, C#, SQL
Frameworks & Technologies: Django, WPF, ASP.NET Web API, REST API
Machine Learning Tools: Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Tkinter
Databases: SQL Server, MySQL (DDL, DML)
Networking Protocols: TCP/IP, RS-485, UDP
Version Control: Git & GitHub
Web Development: HTML, CSS, Bootstrap 5

Projects

V-Suite | Advanced Traffic Management System

- V-Suite Application is similar to ATMS software, a comprehensive system integrating VMS, ANPR, CCTV, MET, and ECB for real-time traffic analysis.
- Implemented AI-driven VASD (Vehicle Actuated Speed Display) technology to monitor vehicle speeds and enforce speed limits.
- Developed a real-time traffic advisory system, displaying safety alerts and road conditions on Variable Message Signs (VMS).

Personal Project Experience

Online Bazar & Quiz MCQ (E-commerce & Desktop Application)

- Developed an e-commerce platform with user authentication, product catalog, and Razor pay payment integration.
- Built a desktop-based Quiz MCQ application with a user-friendly interface, timed quizzes, and result evaluation.
  Tech: Python, Django, Tkinter

Certifications & Training

- Python & Django Development | Ducat, Noida | 2022

Personal Details

- Date of Birth: 12th June 2001
- Languages: Hindi, English
- Current Location: Noida, Sec-63

Education

- B. Tech in Computer Science Engineering (AKTU) | 2017 - 2021 | CGPA: 7.2/10