Devansh Tiwari

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OBJECTIVE

Engineering Analyst Trainee candidate with strong skills in Python, analytics, application development, testing, and data-driven problem solving. Experienced in understanding requirements, building solutions, and supporting end-to-end SDLC activities.

SKILLS

Languages/Databases: Python, JavaScript, HTML5, CSS3, MySQL,MongoDB.

Libraries/Frameworks: React.js, Node.js, Tailwind CSS, Bootstrap.

Domain Knowledge: Machine Learning, Deep Learning, Data Structures & Algorithms, OOPs.

Tools: Git, GitHub, VS Code.

Soft Skills: Leadership, Teamwork, Communication, Adaptability

EDUCATION

Pranveer Singh Institute of Technology **2022 - 2026**
Bachelor of Technology (AIML), SGPA: 7.43 (6th Semester)

Intermediate, Dr. Soney Lal Patel Senior Secondary School **2021 - 2022**
Percentage: 76

High School, Dr. Soney Lal Patel Senior Secondary School **2019 - 2020**
Percentage: 70

PROJECTS

AI-Driven Smart Traffic Management & Analytics System[GitHub] *Oct 2025-Jan 2026*
Technologies: Python, YOLOv8, OpenCV, Streamlit, SQLite

- Built an end-to-end computer vision system to detect and classify vehicles (Cars, Trucks, Buses) in real-time video feeds using the YOLOv8 deep learning model.
- Developed a robust tracking mechanism using BoT-SORT to assign unique IDs and estimate vehicle speeds, effectively handling object occlusions.
- Designed a full-stack analytics pipeline integrating SQLite for data persistence and Streamlit for live visualization of traffic density and trends.
- Deployed the solution as a web-accessible dashboard to automate manual traffic counting and provide actionable insights for urban planning.

Real-Time Anti-Sleep Alarm System [GitHub] *Jan 2025-May 2025*
Technologies: Python, OpenCV, Flask, Pygame

- Developed a real-time driver drowsiness detection system using Computer Vision techniques to monitor facial landmarks and eye closure rates.
- Implemented Histogram Equalization to enhance detection accuracy in low-light environments, simulating night driving conditions.
- Integrated a Flask-based web interface for live video streaming and remote monitoring of the driver's status.

CERTIFICATIONS

HackerRank – Certified in Python & Problem Solving. *2023*
Infosys Springboard – Certified in HTML, CSS, and JavaScript. *2024*
Salesforce Trailhead – Agent Blazer Champion Badge *May 2025*

ACHIEVEMENTS

- Solved **300+ Data Structures and Algorithms problems** on **LeetCode** using **Python**
- Received a **5-star rating in Problem Solving** on **HackerRank.**
- Received a **4-star rating in Python** on **HackerRank.**