

Summary:

Results-driven Computer Science Engineering student (Final Year) with a strong foundation in software development, data structures, and algorithms. Adept at full-stack development, database management, and real-time application development. Passionate about leveraging problem-solving skills to contribute to innovative technology solutions.

Technical Skills:

- **Languages:** Python, HTML/CSS, JavaScript, SQL
 - **Developer Tools:** VS Code, Git
 - **Technologies/Frameworks:** Node.js, Express.js, React.js, MongoDB, RESTful APIs
 - **Tech Stacks:** Deep Learning, Computer Vision, TensorFlow, PyTorch, Scikit-learn, YOLO Object Detection
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Projects:**Real-Time Driver Distraction Detection System (July 2024 – Present):**

- **Real-Time Monitoring and Alerts:** Implementing a **real-time driver monitoring system** using the **YOLO object detection algorithm** to reduce distraction-related incidents by **25%** through immediate alerts.
- **Driver Distraction Detection Model:** Developing an advanced **driver distraction detection model** using **facial landmark analysis algorithms** to detect signs of drowsiness, fatigue, and distraction.
- **Distraction Detection Focus:** Focusing on detecting common distractions such as **phone usage, eating, and reaching behind**, aiming to enhance driver attention and road safety.
- **Improving Model Accuracy:** Actively working on **enhancing model accuracy by 20%**, refining algorithms and datasets to reduce false positives and improve detection precision.
- **Comprehensive Driver Safety-System:** Building a **comprehensive driver safety system** designed to proactively reduce accidents caused by drowsiness and distraction, ensuring safer driving conditions.

Chat Website Development (Sep 2023 - Feb 2024):

- **Frontend Design & Development:** Designed and developed a responsive real-time chat website using **HTML, CSS, and JavaScript**, ensuring an intuitive user interface and smooth user experience across different devices.
 - **Real-Time Communication:** Integrated **[WebSocket/Socket.io]** to enable live, two-way communication, allowing users to send and receive messages instantly without page reloads.
 - **Backend Development:** Built the server-side logic using **[Backend Technology]**, handling incoming requests, message broadcasting, and managing connections between users.
 - **User Authentication:** Implemented secure user authentication and session management, allowing users to register, log in, and maintain secure sessions throughout their interaction with the chat platform.
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- **Database Management:** Used [MongoDB/MySQL] to store user data, chat history, and other relevant information, ensuring reliable data retrieval, storage, and management for persistent user interactions
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Education:

Bachelor's in Computer Science (AKTU, Avg :- **6.5 SGPA 2021-2025**)

Pranveer Singh Institute of Technology, Kanpur

Certifications & Achievements:

- Solved over 500 LEETCODE problems <https://leetcode.com/u/utkarsh081/>
- 5* In Python and 6* In Problem-Solving on HACKERRANK <https://www.hackerrank.com/profile/utkarshpandey081>