PROBLEM STATEMENT

Driver distraction is a foremost cause for motor vehicle accidents and incidents. Driving requires an intensive amount of concentration otherwise the results can be fatal. Yet, most motor vehicles have no system in place to assist the driver when he is feeling drowsy, fatigued or distracted.The primary goal of distracted driving detection using computer vision is to identify and mitigate instances of distracted driving in real-time. This is achieved by analyzing visual cues from within the vehicle to recognize behaviors indicative of distraction, such as smartphone use, drowsiness, or other non-driving-related activities.The problem at hand is to develop a robust and accurate system for detecting instances of distracted driving in real-time. This system must be capable of analyzing driver behavior, identifying potential distractions, and providing timely warnings or interventions to prevent accidents.Developing an effective distracted driving detection system requires a multidisciplinary approach, incorporating machine learning, computer vision, and real-time processing techniques.

MEMBER’S CONTRIBUTION

Sparsh Singh(2021UCA1844)=> the contribution is in research done for literature survey ,dataset generation using mediapipe and opencv,data preprocessing for training model on ensemble learning voting classifier and stacking classifier,ann,hyperparameter tuning and realtime testing of these models using mediapipe and open cv.

Yash Kumar(2021UCA1855)=>the contribution is in research done for literature survey ,data preprocessing for training the model on

Resnet,Adaboost,Mlp,Linear suppor vector classifier ,hyperparameter tuning and realtime testing of these models using mediapipe and opencv.