Abstract:

The aim of our project is to represent our project which makes human driving safer and to overcome accidents. With the growth in population, the occurrence of automobile accidents has also seen an increase. A detailed analysis shows that, around half million accidents occur in a year, in India alone. Further, around 60% of these accidents are caused due to driver fatigue. Driver fatigue affects the driving ability in the following three areas,

- It impairs coordination,
- It causes longer reaction times ,and,
- It impairs judgment.

Through this project, we provide a real time monitoring system using Artificial Intelligence, face/eye detection techniques. Further, to ensure real-time computation, Face detection technique is used for drowsy/fatigue detection. This software project uses some Android API's to interact and get the output of local camera. It maybe a webcam or any other attached camera. We use these API's to get the camera video input to our smart phones. We then use the video data to manipulate and recognize faces in real time.