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**Project Proposal**

**Topic: Driver’s Iris Tracker**

**Course: CSE499A**

**Section: 10**

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**Driver’s Iris Tracker**

**Introduction:**

Now a days accident has became very common all over the world. Due to lack of sleep and tiredness, accident can occur while driving. The best way to avoid accidents caused by driver is to detect whether the driver is sleepy or not and where he is watching by scanning his eyes.So that we can warn them.

**Objective:**

The objective is to overcome the problem related to the accidents related to drivers experiencing fatigue leads to a need arises to design a system that keeps the driver focused on the road.

**Our Proposed Method:**

The proposed method is built in six stages and it is applied to the images with any background:

* Localization of Face
* Localization of the Eyes
* Tracking the eyes in the subsequent frames
* Detection of Drowsiness
* Tracking the face & detect 4-6 head position
* Detection of Distraction

**The Idea:**

1. A video camera placed inside the car is continuously filming the driver’s face during the ride.
2. A detection system analyses the movie frame by frame and determines whether the driver’s eyes are open or shut.
3. If the eyes are shut for more than 1/4 a second (longer than a normal blink period) then the systems beeps to alert the driver.
4. Immediately the alarm will ring.

**Requirment:**

* Python
* Machine Learning
* Image Processing

**Conclution:**

The driver safety in the car is one of the most wanted system to avoid accidents. For enhancing the safety, we are detecting the eye blinks of the driver . The proposed system detecting drowsiness of driver by continuously monitoring mouth area & eyes.