**Title of project**

**Drowsiness Detection System for Intelligent Vehicle using Image Processing**

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**Description:**

A Drowsy Driver Detection System is going to be developed, using a non-intrusive machine vision based concepts. The system will use a camera that points directly towards the drivers face and monitors the drivers eyes in order to detect fatigue. In such a case when fatigue is detected, a warning signal is issued to alert the driver. This describes how to find the eyes, and also how to determine if the eyes are open or closed. The system deals with using information obtained from the binary version of the image to find the edges of the face, which narrows the area of where the eyes may exist. Taking into account the knowledge that eye regions in the face present great intensity changes, the eyes are located by finding the signicant intensity changes in the face. Once the eyes are located, measuring the distances between the intensity changes in the eye area determine whether the eyes are open or closed. A large distance corresponds to eye closure. If the eyes are found closed for consecutive frames, the system draws the conclusion that the driver is falling a sleep and issues a warning signal. A warning signal like an alarm will ring in the car to make the driver alert and a notication of message will be send to the owner of the car if it is in commercial use.