**DROWSINESS DEETCTION USING OPEN CV FACE RECOGNIZATION**

**ABSTRACT:**

A new approach towards automobile safety and security with autonomous region based automatic car system is proposed in this concept. We propose three distinct but closely related concepts viz. a Drowsy Driver Detection system and a traffic detection system with external vehicle intrusion avoidance based concept. In recent time's automobile fatigue related crashes have really magnified. In order to minimize these issues, we have incorporated driver alert system by monitoring both the driver's eyes as well as sensing as well as the driver situation based local environment recognition based AI system is proposed.

**INTRODUCTION:**

In this system we are going to detect sleep of the driver and alert driver using alarm. Using camera, face is detected with the help of face detection. The main objective is the eye ball is monitoring for the fatigue detection. The control unit control the every part in this system, if fatigue is detected the system will give the alarm using the buzzer.

**EXISTING SYSTEM:**

IR sensor placing on eye for fatigue detection the problem with the system it is having user aiding in complex with placing sensor over the eye directly

**PROPOSED SYSTEM:**

* Driver Assistance system with camera
* No hardware using web camera
* Human detection based attention

**ADVANTAGES:**

* Driver Assistance system with cameras focusing user hash free user assistance provided
* M2M communication systems

**Software Used:**

* Python
* Open-CV

**RESULT:**

This system mainly used to detect the sleep and alert the driver, So that we can reduce the maximum road accidents. The system will alert the driver using the buzzer when the driver eye is closed for a particular period of time.

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