DRIVER DROWSINESS DETECTION SYSTEM

A MINI PROJECT REPORT

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BONAFIDE CERTIFICATE

Certified that this project report **"DRIVER DROWSINESS DETECTION SYSTEM"** is the bonafide work of **MUKESH KOLAPPAN A (312419205065)** and **OM PRAKASH (312419205073)** who carried out the Mini project work under my supervision.

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The report of the project work submitted by the above students for Mini Project (IT8611) in **Information Technology** of Anna University were evaluated and confirmed to be reports of the work done by the above students and then evaluated.

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ABSTRACT

Drowsiness of the drivers is one of the key issues for majority of road accidents. Latest statistics say that many of the accidents were caused because of drowsiness of drivers. Drowsiness threatens the road safety and causes severe injuries sometimes, resulting in fatality of the victim and economical losses. Drowsiness implies feeling lethargic, lack of concentration, tired eyes of the drivers while driving vehicles. Vehicle accidents due to drowsiness in drivers are causing death to thousands of lives. More than 30% accidents occur due to drowsiness. For the prevention of this, a system is required which detects the drowsiness and alerts the driver which saves the life. In this project, we developed a system that is able to detect the drowsiness nature of the driver and alert him immediately. In this, the driver is continuously monitored through webcam. This model uses image processing techniques which mainly focuses on face and eyes of the driver. The model extract the drivers face and predicts the blinking of eye from eye region. We use an algorithm to track and analyze drivers face and eyes to measure Perclos. If the blinking rate is high then the system alerts the driver with a sound.

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