



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on

“Dizzy Driver Detection”

Abstract

This Software will build a system which takes the facial features as input from a live recording through a webcam, or camera and then process each frame from the video, to detect the location of eye and by using mathematical calculations, analysing whether the eye location points are changing i.e. The eyelids are closing continuously or not, using the modules of Python i.e., opencv and alert the driver with an audio alert, which makes him stay awake.

Since the majority of accidents are caused because of distraction or the drowsiness of the driver, people taking a long drive often suffer from lack of sleep and are prone to an accident. To prevent such accidents we propose a system which alerts the driver whenever he feels drowsy.

The number of fatalities on the road due to drowsiness is very high. Thus python allows the model of deep learning algorithm via including the use of OpenCV. Drowsiness Detection is the detection of a person to check whether the person is feeling sleepy while performing a significant task.

Hardware Requirements

- Camera
- Personal computer

Software Requirements

- Python 2.7 or above versions
- Anaconda software

*Dept R&D: No

* If No : GNITS



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