DRIVER DROWSINESS DETECTION SYSTEM

A PROJECT REPORT

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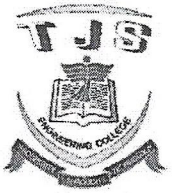
In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING



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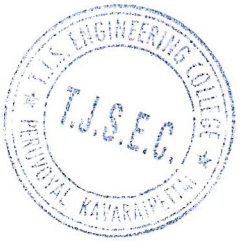

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JUNE 2022

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BONAFIDE CERTIFICATE

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ABSTRACT

e main idea behind this project is to develop a nonintrusive system which can detect fatigue of human and can issue a timely warning. Drivers who do not take regular breaks when driving g distances run a high risk of becoming drowsy a state which they often fail to recognize early ugh. According to the expert's studies show that around one quarter of all serious motorway idents are attributable to sleepy drivers in need of a rest, meaning that drowsiness causes more d accidents than drink-driving. This system will monitor the driver eyes using a camera and by eloping an algorithm we can detect symptoms of driver fatigue early enough to avoid the person m sleeping. So, this project will be helpful in detecting driver fatigue in advance and will give rning output in form of alarm and popups.

reover, the warning will be deactivated manually rather than automatically. For this purpose, a activation dialog will be generated which will contain some simple mathematical operation ich when answered correctly will dismiss the warning. Moreover, if driver feels drowsy there is ssibility of incorrect response to the dialog. We can judge this by plotting a graph in time ain. If all the three input variables show a possibility of fatigue at one moment, then a rning signal is given in form of text and sound. This will directly give an indication of wsiness/fatigue which can be further used as record of driver performance.

ywords- Drowsiness, Supervised Learning, Unsupervised Learning, Machine Learning.