

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

JNANA SANGAMA CAMPUS, BELGAVI-590018



**PROJECT REPORT**

**On**

**“DRIVER DROWSINESS DETECTION BASED ON VISUAL  
FEATURES”**

**Submitted by**

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**In partial fulfilment of the requirements for the degree of  
BACHELOR OF ENGINEERING**

**In**

**INFORMATION SCIENCE AND ENGINEERING**

**Under the Guidance of**

**Mr. JAYANTKUMAR A RATHOD**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING  
ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Moodbidri-574225, Karnataka**

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# ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

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## CERTIFICATE

*Certified that the project work entitled "DRIVER DROWSINESS DETECTION BASED ON VISUAL FEATURES" is a bonafide work carried out by*

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in partial fulfilment for the award of BACHELOR OF ENGINEERING in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

**Mr. JAYANTKUMAR A RATHOD**

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**Project Guide**

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## ABSTRACT

The number of motor vehicles in developing countries has been gradually increased over the decade. Official investigation reports of traffic accidents point out that dangerous driving behavior, such as drunk and drowsy driving, account for a high proportion of accidents. On average traffic, road accidents in the world claim 1.3 million lives and cause 50 million disabilities annually. To summarize, existing system are providing slightly less accuracy results due to low clarity image and videos, which results for variation in the camera position. To overcome these problems the proposed paper introduces drowsiness detection which are shape predictor algorithm that detects the eyes of a person, and also counts the eye blink of the driver to avoid the accidents. The development of a driver monitoring system capable of producing warning to the driver upon detecting signs of drowsiness can prevent road accidents and thus save lives.