## DRIVER DROWSINESS DETECTION SYSTEM

##### A MINI PROJECT REPORT

# *Submitted by*

### MUKESH KOLAPPAN A (312419205065)

**OM PRAKASH K (312419205073)**

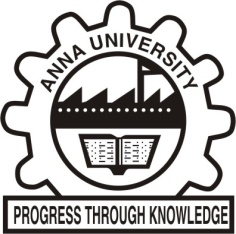
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**St. JOSEPH’S INSTITUTE OF TECHNOLOGY, CHENNAI- 600 119**

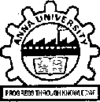


**ANNA UNIVERSITY, CHENNAI 600 025**

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i

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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.

|  |  |
| --- | --- |
| **SIGNATURE**  Dr. S.KALARANI M.E., Ph.D., | **SIGNATURE** |
| Mr. M. KARTHI M. Tech., Ph.D., |
| Professor  **HEAD OF THE DEPARTMENT** | Assistant Professor  **SUPERVISOR** |
| Department Of  Information Technology | Department Of  Information Technology |
| St. Joseph’s Institute of Technology  Old Mamallapuram Road  Chennai-600119 | St. Joseph’s Institute of Technology  Old Mamallapuram Road  Chennai-600119 |

Submitted for the Viva-Voce held on \_\_\_\_\_\_\_\_

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ii

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| --- | --- | --- | --- |
| **S.N S.NO** | **NAMES OF STUDENTS** | **TITLE OF THE PROJECT** | **NAME OF THE SUPERVISOR WITH DESIGNATION** |
| 1.  2. | MUKESH KOLAPPAN A  (312419205065)  OM PRAKASH K  (312419205073) | “DRIVER DROWSINESS DETECTION SYSTEM” | Mr. M. KARTHI M. Tech., (Ph.D).,  Assistant Professor |

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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iii

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iv

# 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.

v

**LIST OF FIGURES**

**FIG NO NAME OF THE FIGURE PAGE NO**

4.1 ARCHITECTURE DIAGRAM 26

4.2 USE CASE DIAGRAM 27

4.3 ACTIVITY DIAGRAM 28

4.4 SEQUENCE DIAGRAM 29

4.5 COMPONENT DIAGRAM 30

vi

**TABLE OF CONTENTS**

**CHAPTER TITLE PAGE NO**

**ABSTRACT**  iv

**LIST OF FIGURES** v

1. **INTRODUCTION 1**
   1. SYSTEM OVERVIEW 1
   2. Different Approaches to Detecting Drowsiness 1
      1. Behavioural Parameters-Based Techniques 1
      2. Vehicular Parameters-Based Techniques 2
      3. Physiological Parameters-Based Techniques 2
      4. Digital Image Processing 3
   3. MOTIVATION FOR THE WORK 4
   4. PROBLEM STATEMENT 4
2. **LITERARTURE SURVEY 5**
   1. Drowsiness Detection Through Region Of Interest 5
   2. Detection of Drowsiness Through LBPH 6
   3. Behavioural Based Techniques 6
      1. Eye Tracking and Dynamic Template Matching 7
      2. Mouth and Yawning Analysis 7
      3. Facial Expressions Method 8
      4. Yawning Extraction Method 8
      5. Eye Closure and Head Postures Method 9
      6. Real Time Analysis Using Eye and Yawning 9
      7. Eye Blink Detection Method 11
      8. Eye Closeness Detection Method 12
   4. Vehicular Parameter-Based Techniques 13
      1. Real Time Lane Detection System 13

vii

* + 1. Time Series Analysis Of Wheel Angular Velocity 14
    2. Steering Wheel Angle For Real Driving For DDT 14
    3. Automatic Detection Of Driver Fatigue 15
  1. Drowsiness Detection Through Physiological Approach 15
     1. EEG-Based Driver Fatigue Detection 16
     2. Wavelet Analysis Of Heart Variability & SVM 17
     3. Pulse Sensor Method 17
     4. Wearable Driver Drowsiness Detection System 18
     5. Wireless Wearables Method 18
     6. Driver Fatigue Detection System 19
     7. Hybrid Approach Utilizing Physiological Features 19

1. **SYSTEM ANALYSIS 21**
   1. Existing System 21
   2. Proposed System 21

3.2.1 Advantages of the Proposed System 21

* 1. Requirement Specification 22

3.3.1 Software Requirement 22

3.3.2 Hardware Requirements 22

3.4 Language specification 23

3.4.1 Python Programming Language 23

3.5 Algorithm Description 25

1. **SYTEM DESIGN 26**
   1. Architecture Diagram 26
   2. Use case diagram 27
   3. Activity diagram 28
   4. Sequence diagram 29
   5. Component diagram 30

viii

1. **SYSTEM IMPLEMENTATION 32**
   1. Modular Division 32
      1. Haar Cascade 32
      2. PerClos 37
2. **CONCLUSION AND FUTURE ENHANCEMENTS**  39

**APPENDIX I 40**

Sample Coding 40

**APPENDIX II 47**

Screenshots 47

**REFERENCES 50**

ix