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Date: -    /    /

Place: - Yavatmal

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Pranjali R. Hiwale</b>  | <b>PRN: 1910121245041</b>        |
| <b>Anand A. Kalsait</b>    | <b>PRN: 41101220181124510023</b> |
| <b>Kishori Y. Choukade</b> | <b>PRN: 41101220181124510033</b> |
| <b>Aishwarya S. Puri</b>   | <b>PRN: 41101220181124510004</b> |

## ABSTRACT

Drowsiness of drivers is amongst the significant causes of road accidents. Every year, it increases the amounts of deaths and fatalities injuries globally. In this project, a module for Advanced Driver Assistance System (ADAS) is presented to reduce the number of accidents due to drivers' fatigue and hence increase the transportation safety; this system deals with automatic driver drowsiness detection based on visual information and Artificial Intelligence. We proposed an algorithm to locate, track, and analyze both the drivers face and eyes to measure PERCLOS (percentage of eye closure), a scientifically supported measure of drowsiness associated with slow eye closure

**Keywords** - *Face Detection, Eye Detection, Image processing, Driver Drowsiness Detection.*

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# **CHAPTER 1**

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# **CHAPTER 3**

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