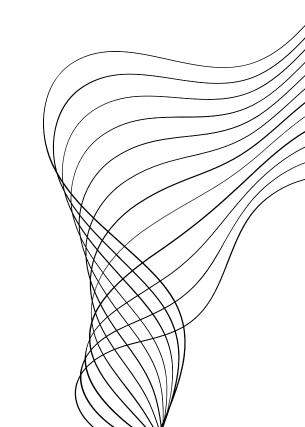


# FINAL YEAR PROJECT

DROWSINESS DETECTION SYSTEM



## CONTENT

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INTRODUCTION

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**APPLICATIONS** 

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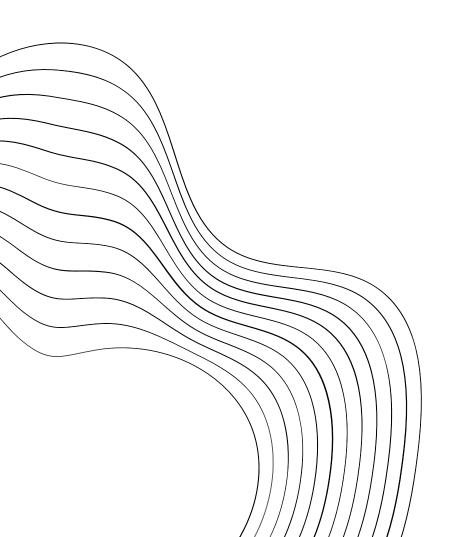
TECHNOLOGY USED

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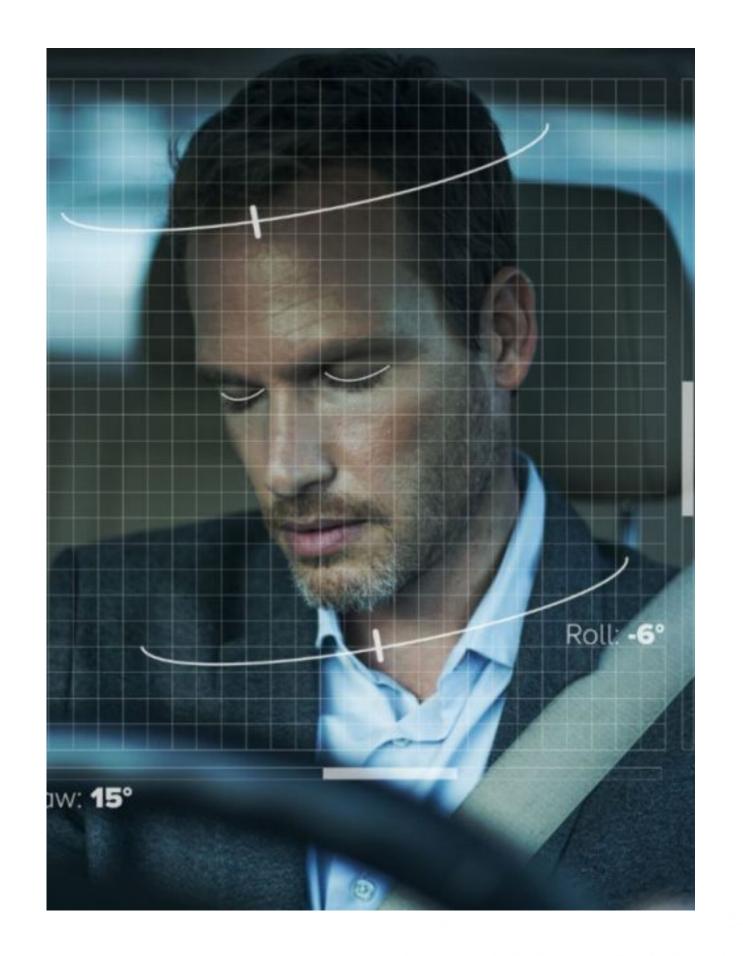
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## INTRODUCTION

Drowsiness prediction is a critical task in various domains, especially in transportation safety, healthcare, and industries where alertness and attentiveness are essential. The goal of drowsiness prediction is to anticipate when an individual is likely to become drowsy, fatigued, or less alert. This prediction can help prevent accidents, improve performance, and enhance safety



#### **APPLICATIONS**

#### **Transportation**

#### **Driver Drowsiness Detection:**

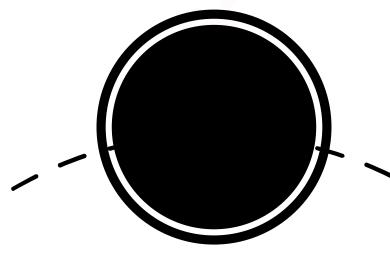
Drowsiness detection
systems in vehicles can
monitor a driver's behavior,
such as eye movement, head
position, and steering
patterns, to alert the driver
when they are becoming
drowsy. This is crucial for
preventing accidents caused
by drowsy driving.

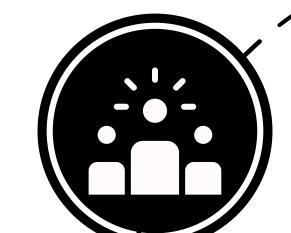
### Industrial and Workplace Safety

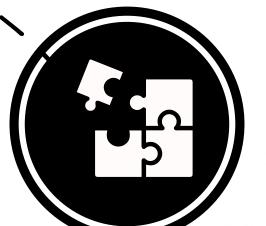
Heavy Machinery Operators: Operators of heavy machinery, such as construction equipment and factory machines, can benefit from drowsiness detection systems to reduce the risk of accidents caused by fatigue.

#### Education

Student Alertness:
Drowsiness detection is
used in educational
settings to monitor and
improve student alertness,
especially in long-duration
lectures or online learning
environments..







### TECHNOLOGY USED

01

CONVOLUTIONAL NEURAL NETWORKS

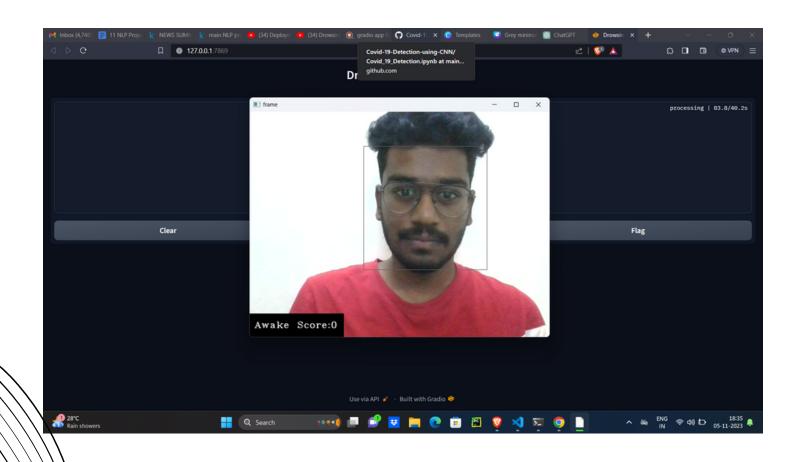
02

COMPUTER VISION

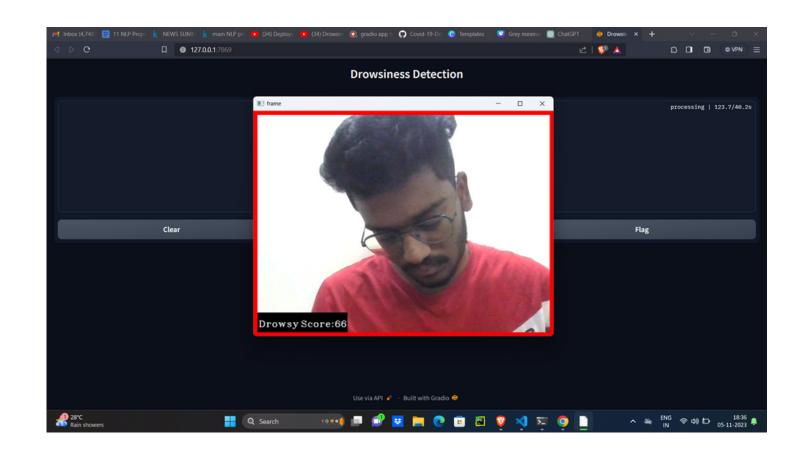
03

GRADIO

## RESULTS



AWAKE



DROWSY

# THANK

