



TEAM PHOENIX

# DROWSINESS DETECTION SYSTEM

TEAM PHOENIX

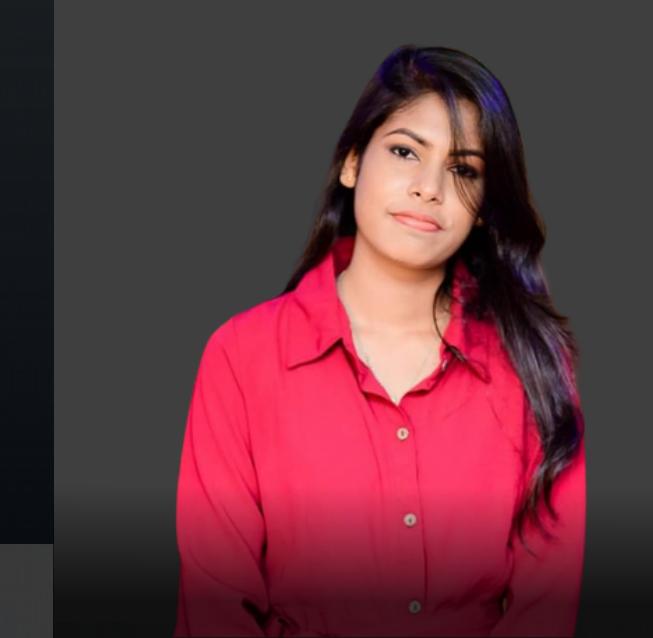
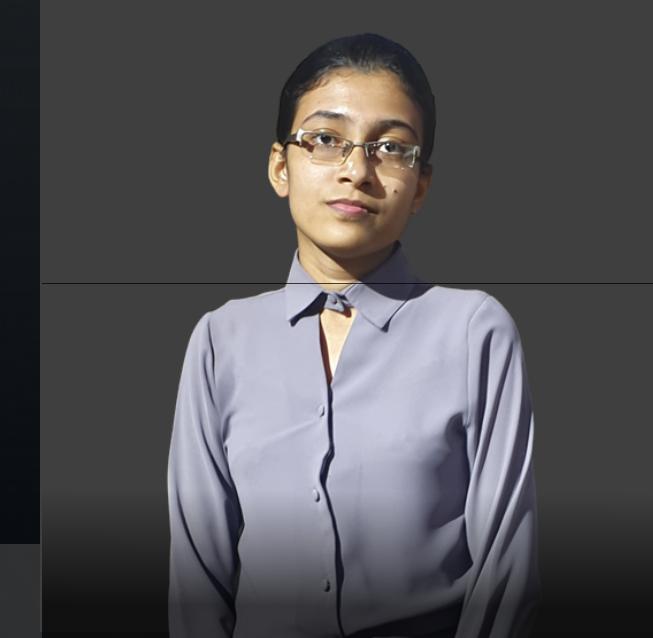
2022

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# ABOUT US

Always step forward and make a difference for better services

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NISITHA SILVA

Team Leader

THARINDU  
THENUWARA

YASARA EPA

DULMI THARUKA

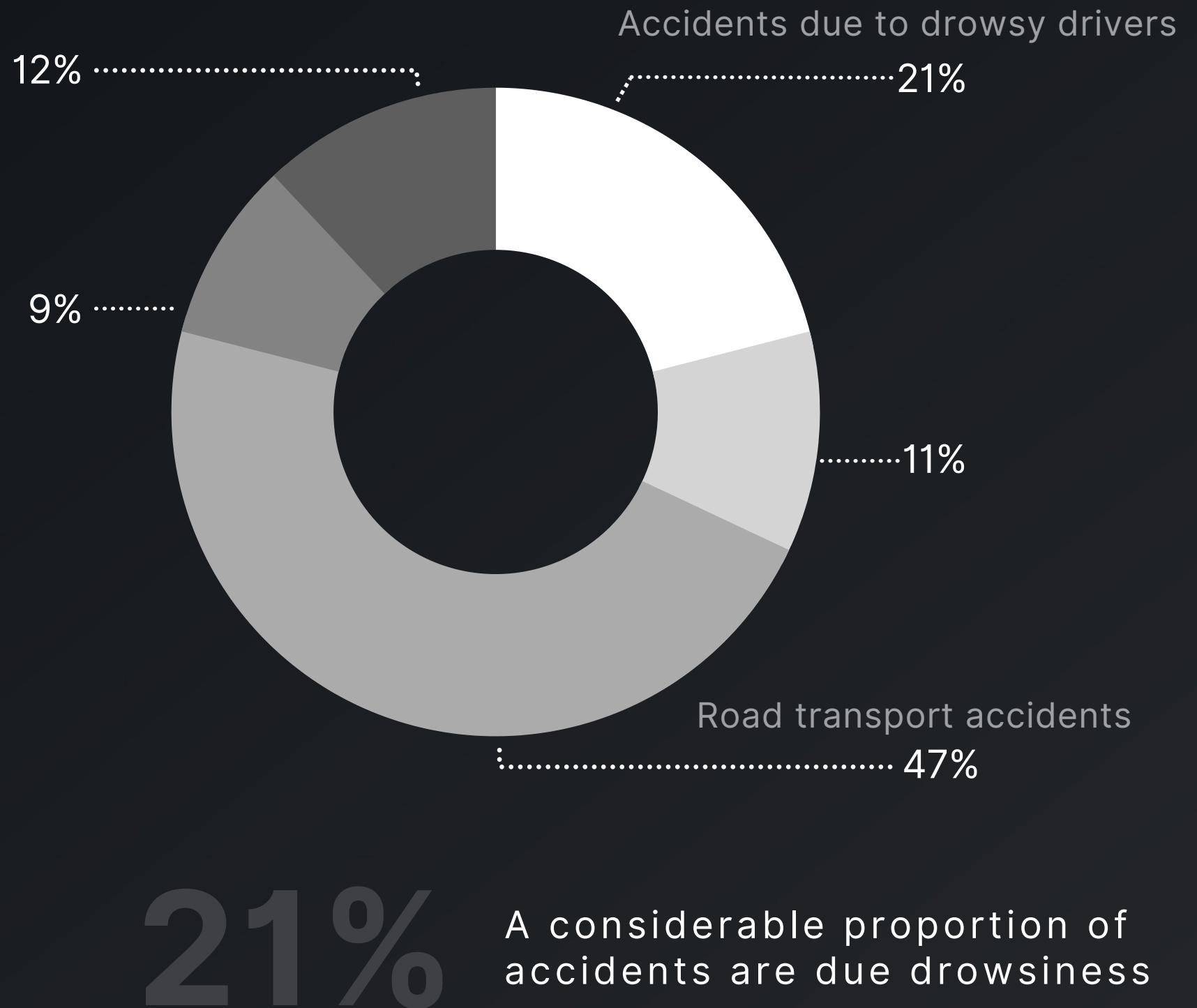
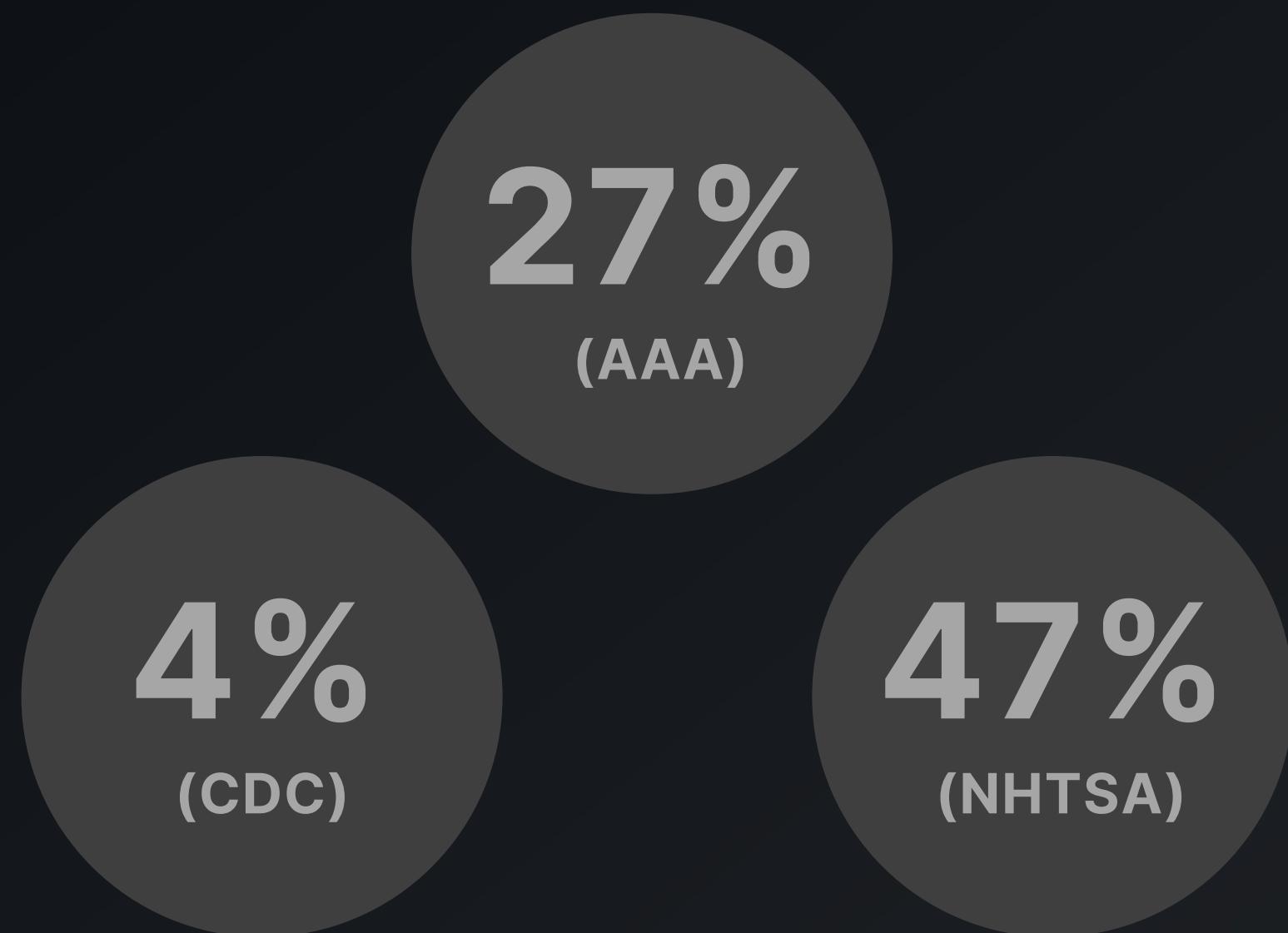
HIRUNI AYODYA

TEAM PHOENIX

# DATA ANALYSIS

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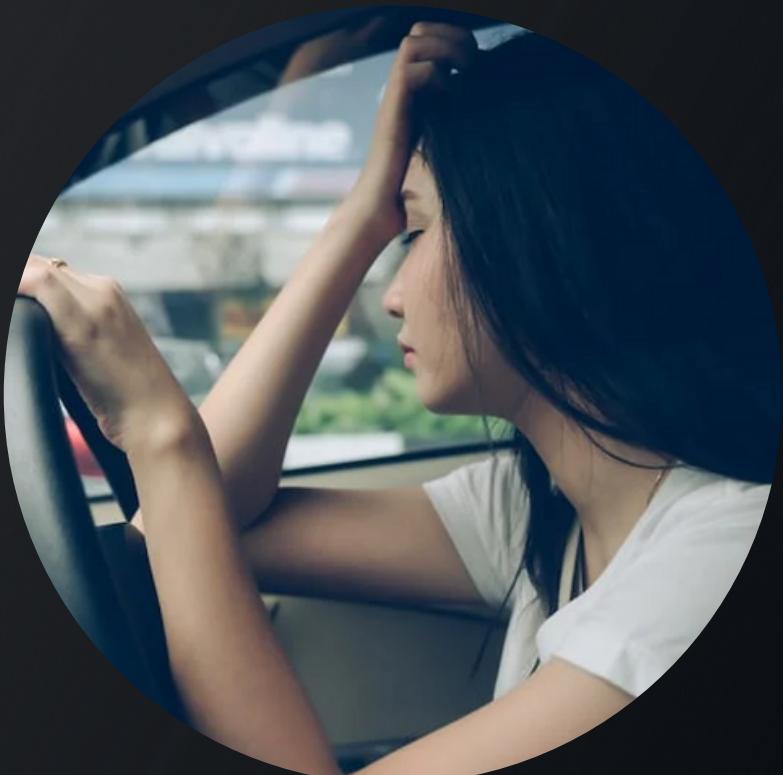
How often do people drive while drowsy?



# PROBLEM DESCRIPTION

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Drowsiness is a serious concern which occurs without drivers intention and can affect anyone who gets behind the wheel.



# SOLUTION

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The system that we implement warns the driver if it detects any early symptoms of drowsiness such as,



CLOSING EYE LIDS



SLOW EYE  
MOVEMENTS



YAWNING



DROPPING HEAD

# FEATURES

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DROWSINESS WARNING



YAWN WARNING



DISTRACTION WARNING



GPS TRACKING



HIGH SPEED WARNING

# OUR MISSION

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## Reliability

Serve its purpose as a system for promoting driver safety



## Real-time response

Detect drowsiness and warn that driver promptly



## Flexible

Accommodate for all types of users, in terms of physical attributes



## User Friendly

Provide a good user experience to the driver as possible

STANDARD  
PACKAGE

\$80

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New product which  
is designed for the  
new generation.

BOX CONTENT

- 1×DRIVER CAMERA
- 1×ADJUSTABLE SUCTION CUP MOUNT
- 1×POWER CABLE
- 2×MOUNTING PADS

OUR  
PRICING

## SOCIAL IMPACT

- Family Members
- Close Colleagues

## ENVIRONMENTAL IMPACT

- Gas Emission
- Oil Spills

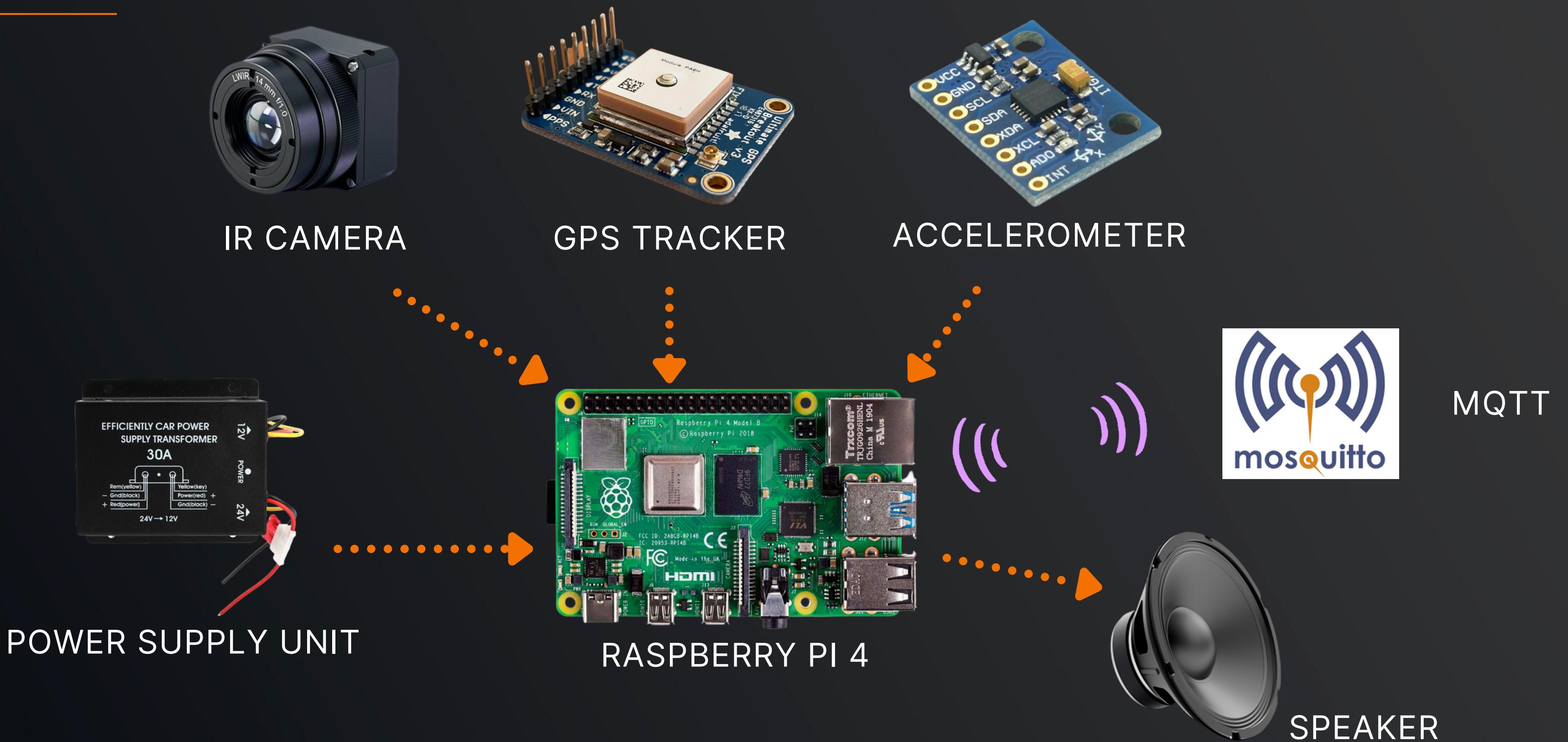
**\$68B**  
(NHTSA)

# CONTRIBUTION FOR SDG

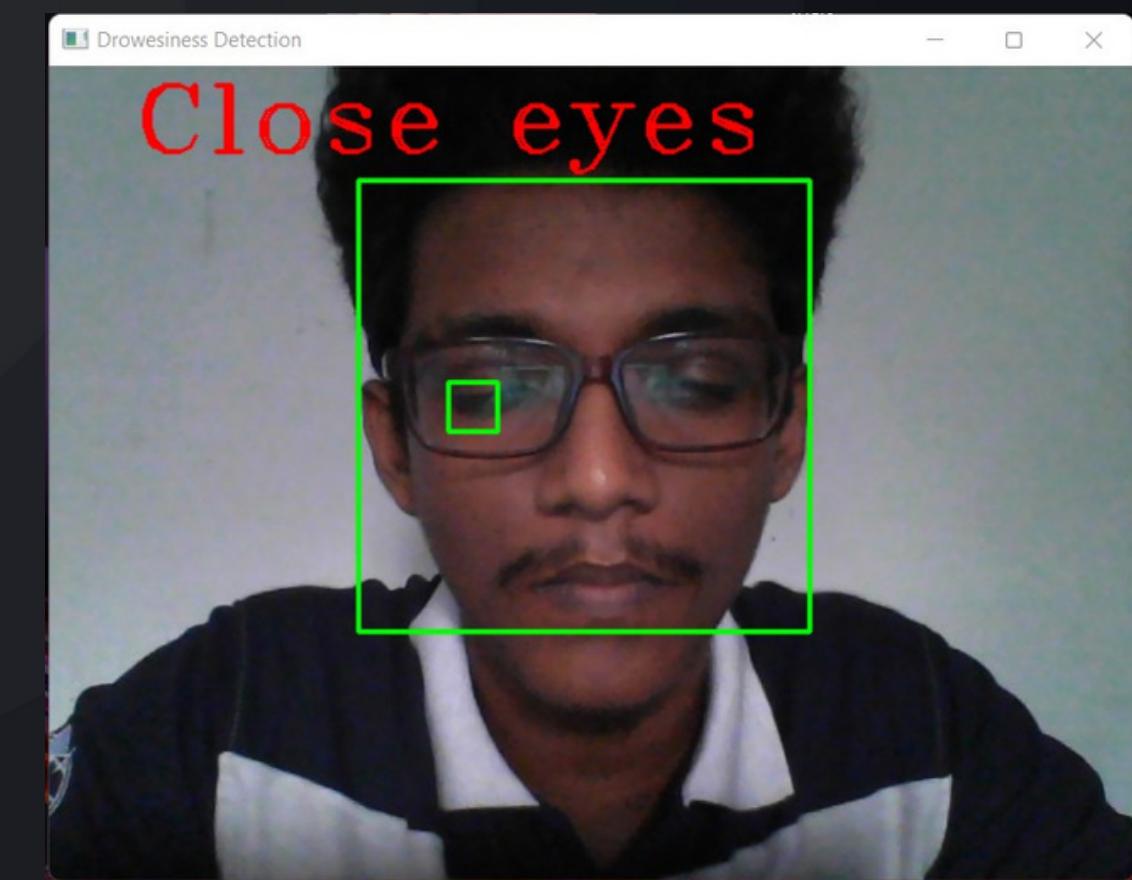
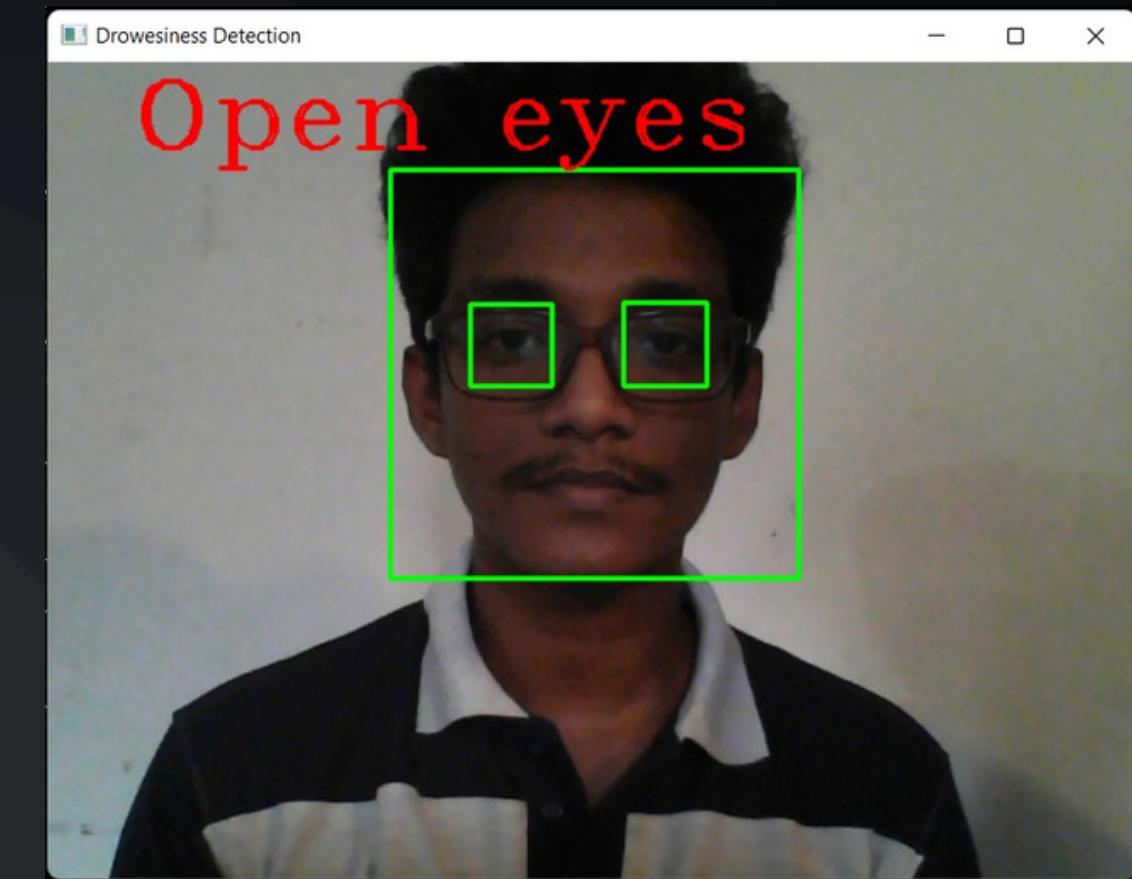
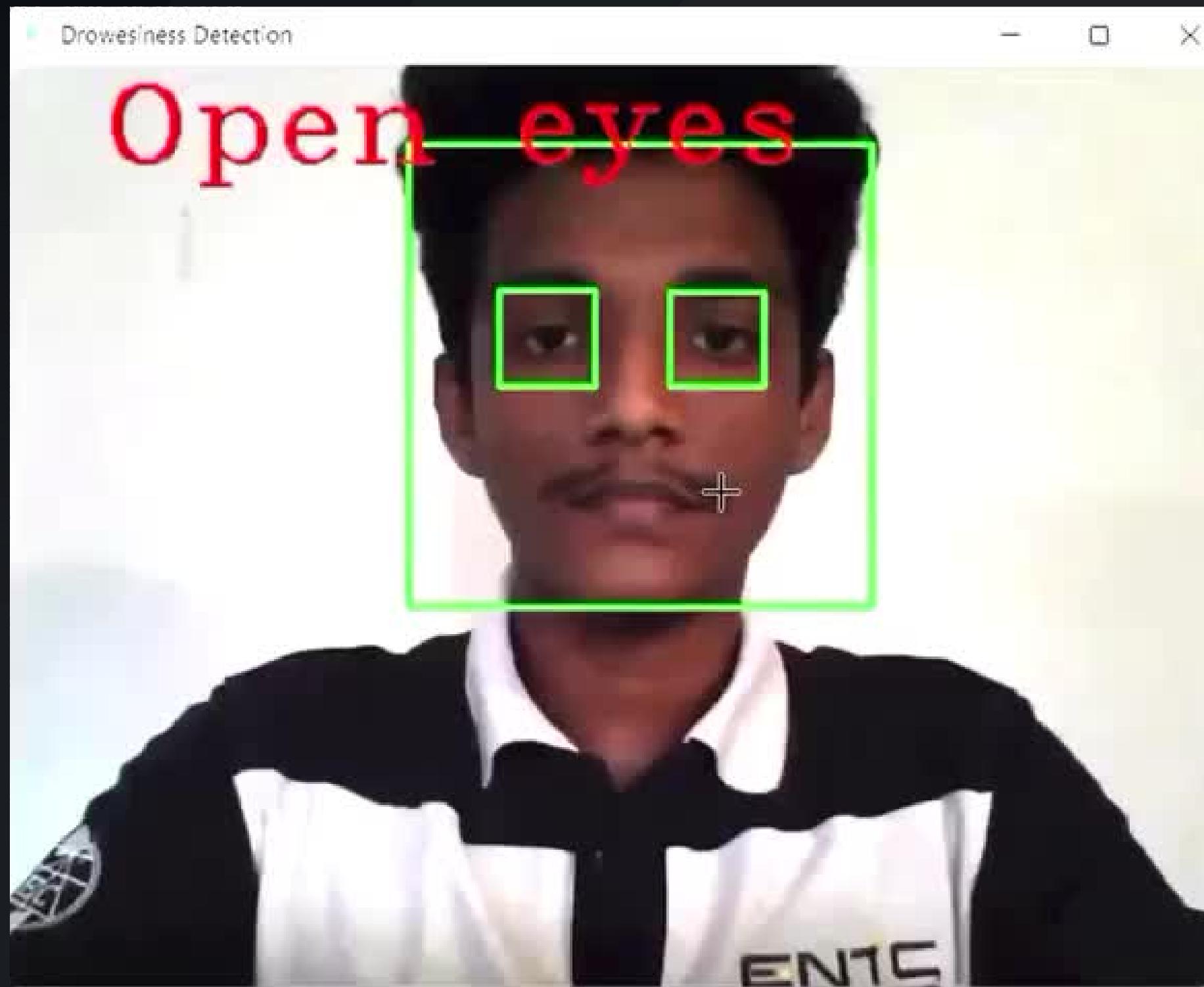
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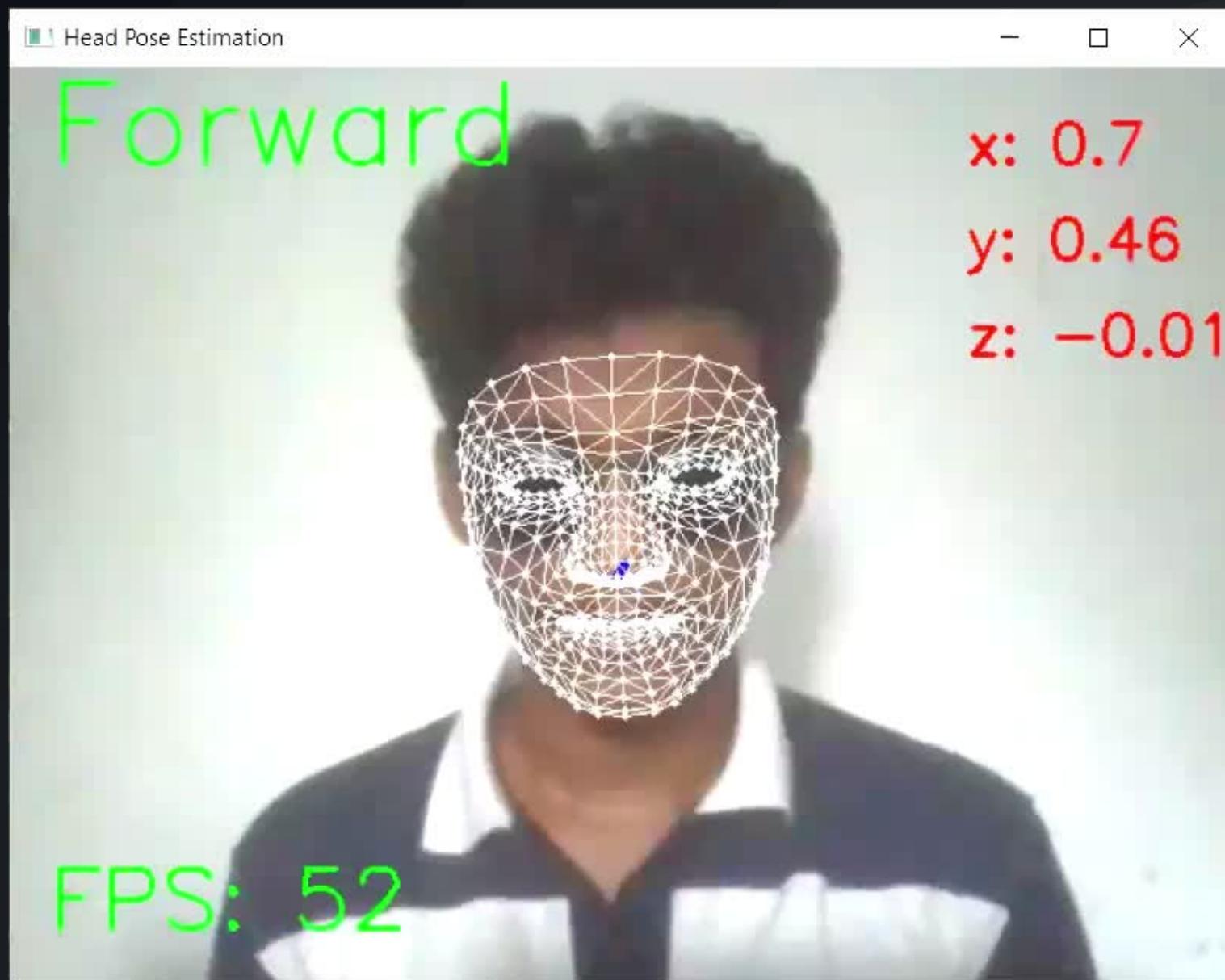
# METHODOLOGY



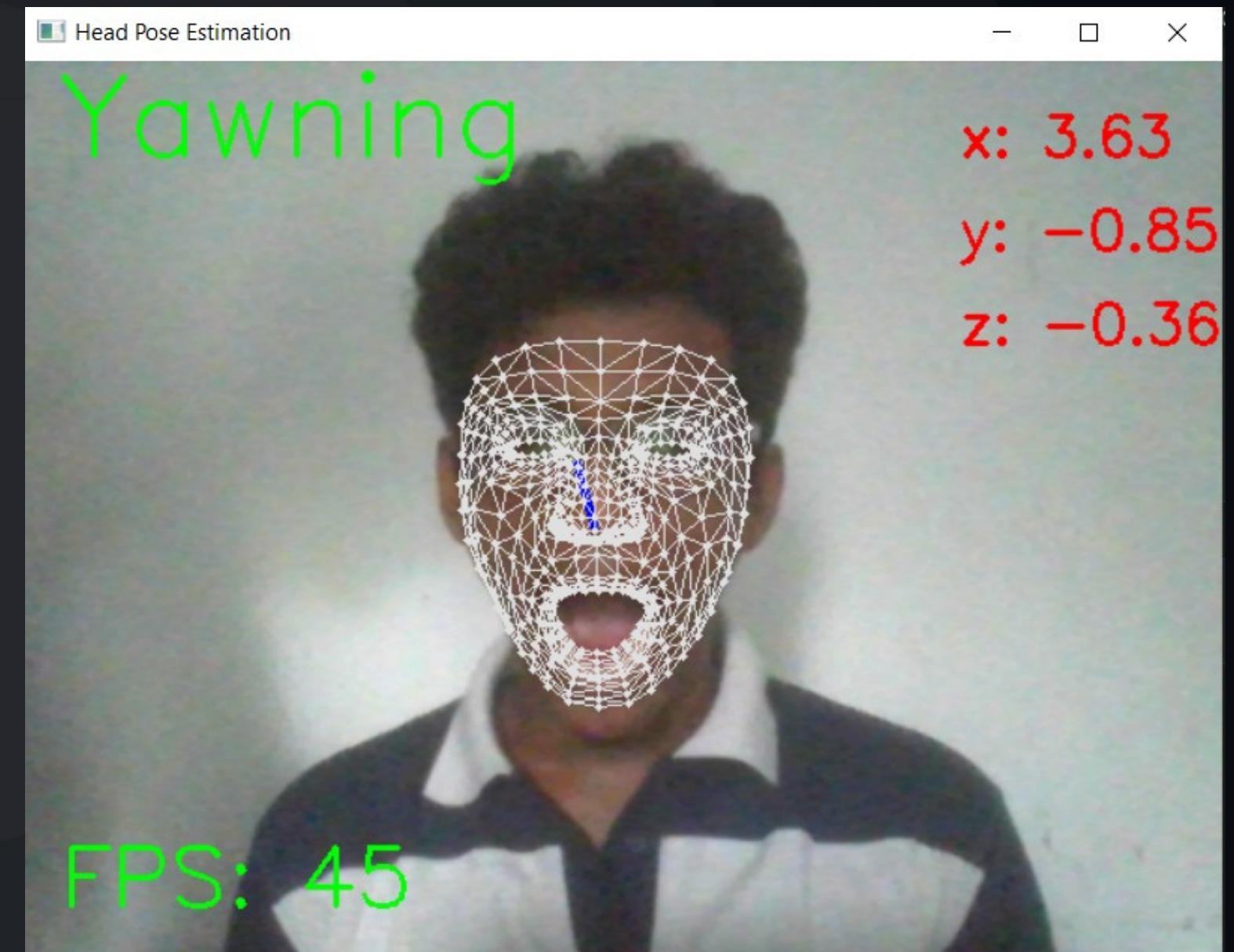
# DETECTING EYES



# DETECTING HEAD POSE

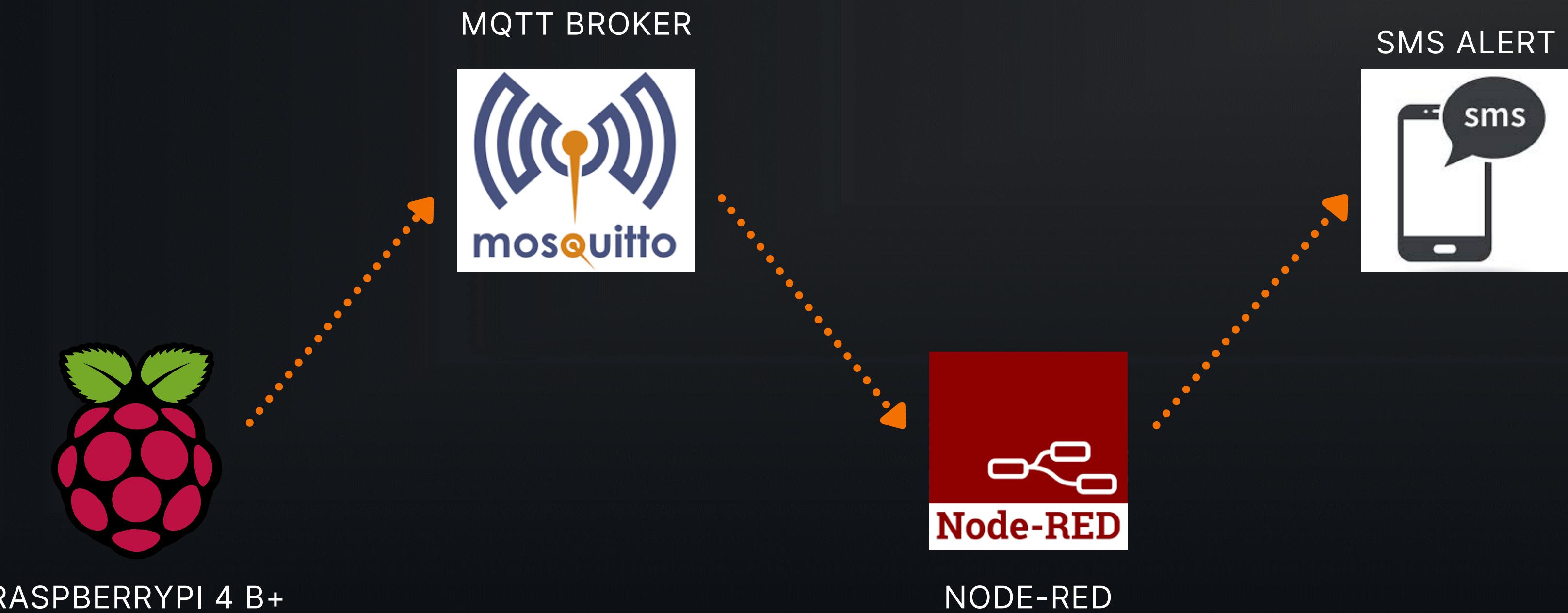


# YAWNING



# MESSAGE ALERTS SYSTEM

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# ENCLOSURE DESIGN

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CAMERA SETUP



CONTROLLER



T E A M P H O E N I X

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# THANK YOU

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