

Driver Fatigue Detection in Vehicles using Computer Vision.

Test Plan

Version No: 26-05-2020

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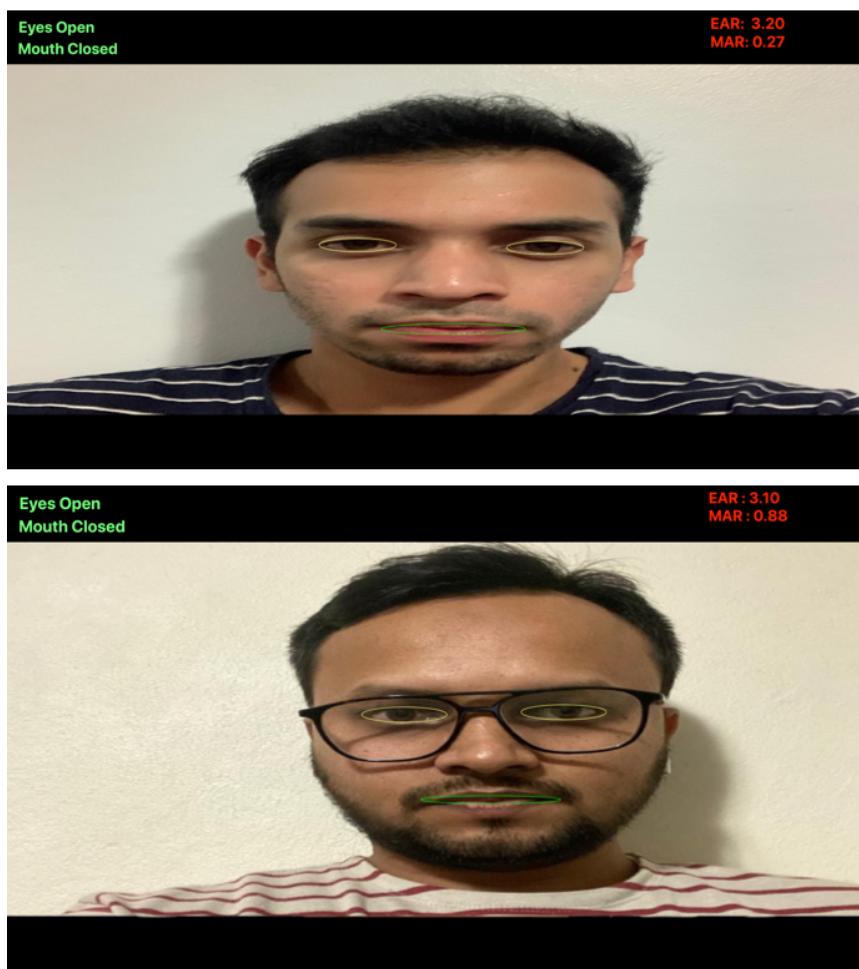
Introduction

The tests are conducted under these various cases:

1. Different lighting conditions.
2. Driver's posture, and position of the face.
3. Driver wearing spectacles.

Test Case 1

When there is ambient lighting



Result: As shown in the above figure when there is ambient amount of light, the driver's face and eyes are successfully detected.

Test Case 1

When there is not enough ambient lighting



Result: As shown in the above figure when there is not much ambient amount of light, the driver's face and eyes are successfully detected.

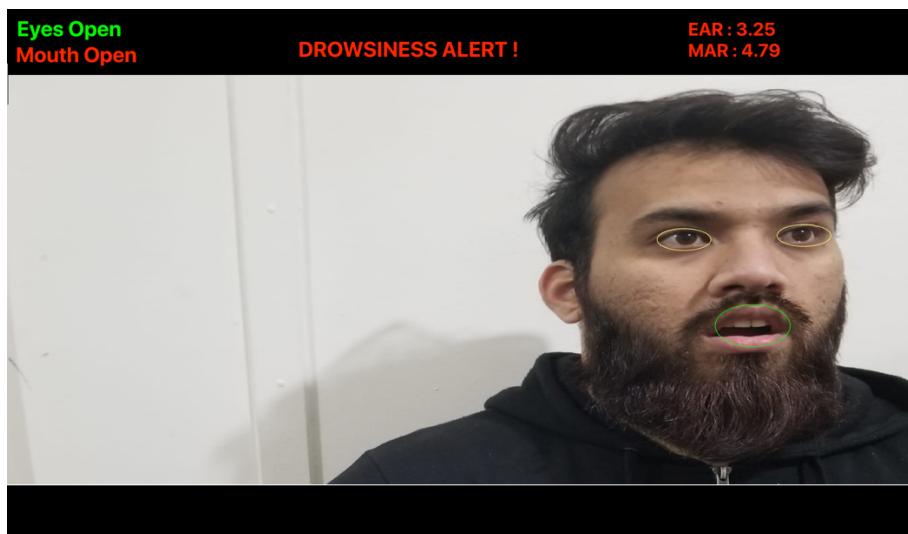
Test Case 2

Driver's Position: Center

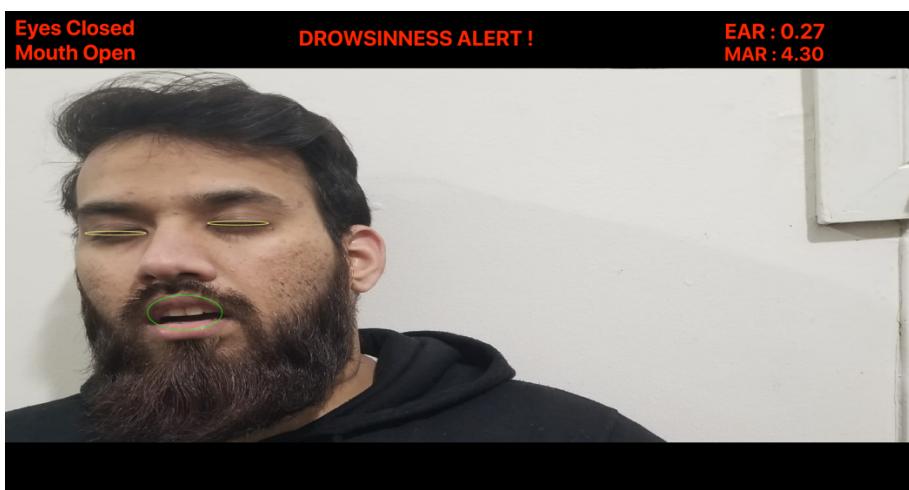


Result: As shown in the above figure, when the driver's face is positioned at the Centre, the driver's face and eyes are successfully detected.

Driver's Position: Left



Result: As shown in the above figure, when the driver's face is positioned at the Left, drowsiness was successfully detected.



Driver's Position: Right

Result: As shown in the above figure, when the driver's face is positioned at the Right, drowsiness was successfully detected.

Test Case 3

Driver wearing spectacles



Result: As shown in the above figure when the driver is wearing spectacles, the driver's face and eyes are successfully detected.

Conclusion

The system was tested by using the webcam, focusing on the driver. It was found that the system gave positive outputs.