# Detection of Driver **Drowsiness** |Computer Vision (YOLO)

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04

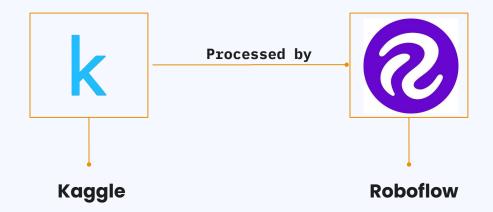
**O3**Model Development & Training

Model Predictions Result

# O1 Data Gathering

# 01 Data Gathering

#### **Data Source**





# O2 Data Processing

## 02 Data Processing(Roboflow)



#### 3 Classes

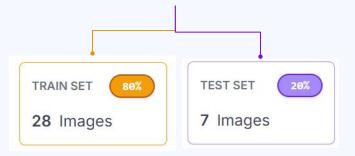
**CLASS NAME** 

Normal

Sleep

Yawning

#### 35 Total Images





#### Tools Used..



is a hosted Jupyter Notebook service



Open-source library for computer vision and ML, offering tools and algorithms for processing images and videos



known for creating the YOLO object detection models



#### **IPython**

Interactive Python shell offering a more powerful environment than the standard shell

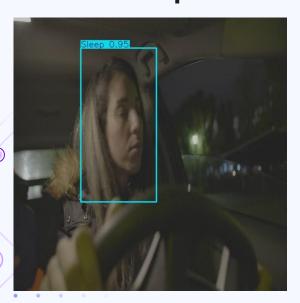
# O3 Model Development & Training

# 03 Model Development & Training

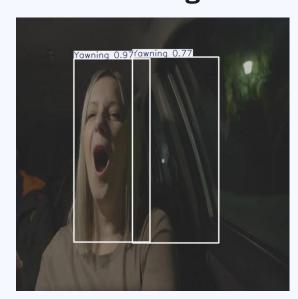
| Task   | Mode  | Model  | Epochs | Imgsz |
|--------|-------|--------|--------|-------|
| Detect | Train | Yolov8 | 20     | 640   |

### **04 Model Predictions Result**

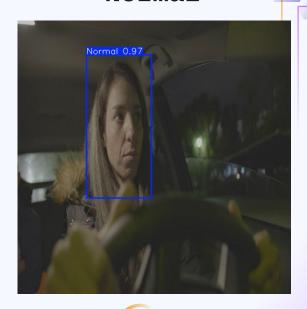
Sleep



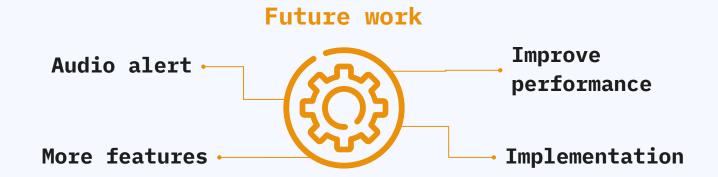
Yawning



#### Normal



#### Conclusion



# Thank you for listening!

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