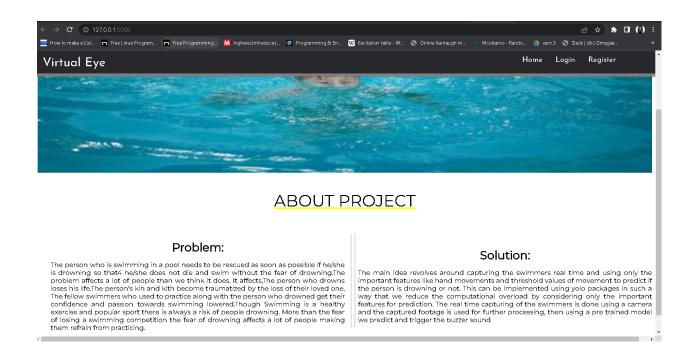
Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID36007	
Project Name	Project - Virtual Eye	
Maximum Marks	10 Marks	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

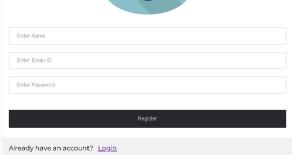
S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	Pre trained yolo v3 and yolo v3 tiny models
2.	Accuracy	Training Accuracy -	Not Applicable
		Validation Accuracy -	
3.	Confidence Score (Only Yolo Projects)	Class Detected -	Confidence score and class labels are given below in the
		Confidence Score -	screenshots.













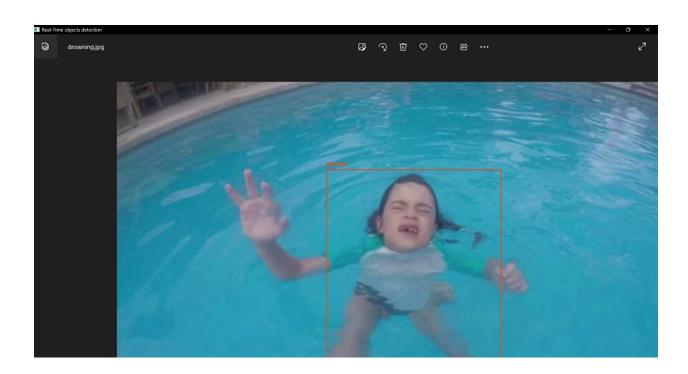
<u>Virtual Eye-Life Guard for Swimming Pools to Detect Active Drowning</u>

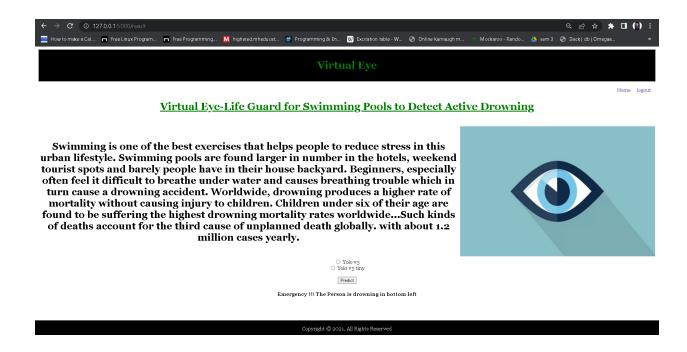
Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in the hotels, weekend tourist spots and barely people have in their house backyard. Beginners, especially often feel it difficult to breathe under water and causes breathing trouble which in turn cause a drowning accident. Worldwide, drowning produces a higher rate of mortality without causing injury to children. Children under six of their age are found to be suffering the highest drowning mortality rates worldwide...Such kinds of deaths account for the third cause of unplanned death globally. with about 1.2 million cases yearly.



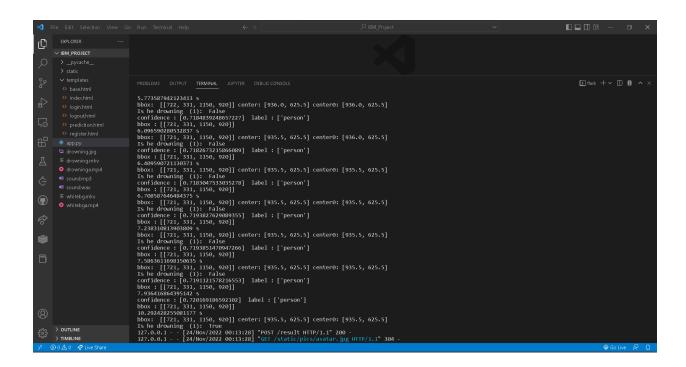


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Confidence scores and class labels are given in this screenshot





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```
mod=request.form['model']
while webcam1.isOpened():
    # mod='yolov3-tiny'
   threshold=10
    status,frame=webcam1.read()
   bbox,label,conf=cv.detect_common_objects(frame,model=mod)
    status1,frame1=webcam2.read()
   bbox1,label1,conf1=cv.detect_common_objects(frame1,model=mod)
    status2,frame2=webcam3.read()
   bbox2,label2,conf2=cv.detect_common_objects(frame2,model=mod)
    status3, frame3=webcam4.read()
    bbox3, label3, conf3=cv.detect_common_objects(frame3, model=mod)
    print("confidence :",conf," label :",label)
    print("bbox :",bbox)
    if(len(bbox)>0):
       bbox@=bbox[0]
```