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Team ID	PNT2022TMID45727
Project Name	VirtualEye - Life Guard for Swimming Pools to  Detect Active Drowning

## PROJECT OBJECTIVE

## YOLO:

- YOLO-based Convolutional Neural Network family of models for object detection
- YOLO is an abbreviation for the term 'You Only Look Once'. This is an algorithm that detects and recognizes various objects in a picture (in real time). Object detection in YOLO is done as a regression problem and provides the class probabilities of the detected images.
- The most recent variation called YOLOv3. This algorithm is popular because of its speed and accuracy. It has been used in various applications to detect traffic signals, people, parking meters, and animals

## To train a YOLO model in windows environment:

- Image Collection
- Image Selection (How to choose a proper set of images to train YOLO)
- Annotate Image
- Download and configure Darknet in Windows
- Create Train and Test Data to train YOLO model
- Compile darknet on Windows
- Train YOLO custom object detection model in Windows
- Test YOLO model for image and video