**Object Detection**

* For Object detection the first thing which i thought was using Yolo algorithm because i know the working of it. And I have also read about the comparisons between different object detection algorithms(R-CNN, Fast R-CNN, Faster R-CNN, YOLO), and gone through all the advantages and disadvantages of all the algorithms.
* Yolov5 has an open source repository for implementation which can be used for custom object detection training and Inferencing.
* In the dataset provided the annotations were in COCO format which needed to be converted in YOLO format. So I used a github repository for conversion.
* After conversion I split the dataset into a training and validation set.
* After the training is done we can use the weights on which the model was trained or the Yolov5 default weights for inference.