

Cricket and Football Detection Using YOLOV5 Algorithm

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Abstract: A cutting-edge technology in artificial intelligence and machine learning is called object detection. It is crucial to understand about object localization before moving on to object detection. For being able to localize object first, we need to know what the object is in the image. Then we need to assign bounding box to that specific object we want to detect in the image or video. Finding a single item's location in an image or video is called object localization. Finding numerous objects' locations in an image or video is called object detection. The use of Object Detection has been increased drastically within last decade. And, it is being used in many areas for refining efficacy in the task. object detection is being used in home automation, agriculture, Automated or self-driving cars, Surveillance industry, traffic tracking system, Activity Recognition, defense systems, sports, industrial work, automobile industries, robotics, aviation industry and many other fields. Object detection can be performed consuming various set of rules like R-CNN, Fast R-CNN, Faster R-CNN, Single Shot detector (SSD) and You Only Look Once (YOLO). For this project an assessment of R-CNN and YOLO algorithms will be performed and also their results as well as performance will be studied. The performance and accuracy should be supreme vital in examining the algorithms.

Keywords: YOLO algorithms

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