GRADE 100%

Object Detection

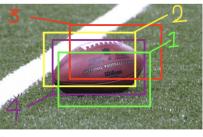
ATEST SUBMISSION GRADE		
	Check all the techniques that can be used to improve the accuracy of detecting objects and encapsulating them entirely within a single bounding box.	1/1 point
	☐ Scale down the image and then detect the object within it using the bounding box ✓ Use Selective Search technique	
	Correct Correct! It is an advanced technique, and faster than a naive approach.	
	Increase the size of the bounding box until the object fits entirely in it.	
	Correct Correct! That is one of the simplest techniques.	
).	Check all that are true for Selective Search.	1/1 point
	It tries to identify larger objects by grouping together initially identified smaller objects.	
	✓ Correct	

✓ Image segmentation is used in this technique

Correct! It is used to identify smaller objects. The biggest bounding box detected of the smaller objects in the end becomes the final bounding box around the

 The technique of selecting the best bounding box based on the highest intersection over union (IOU) between the true
label and several predicted bounding boxes is called non-maximum _______ (NMS). (Hint: it is a one word answer) 1/1 point Suppression ✓ Correct Correct!

Consider the following image, according to the NMS technique which coloured bounding box will be eventually selected as the best bounding box around the football?



Red (# 3)

O Green (# 1)

Purple (# 4)

Yellow (# 2)

✓ Correct

Correct! As this bounding box encapsulates the maximum area of the object.

 One of the differences between R-CNN and Fast R-CNN is that, Fast R-CNN proposes regions of interest to the input image
(generates), whereas in R-CNN regions of interest are expected to be an input (as opposed to generating them) to the
model. False



○ True

✓ Correct

Correct! R-CNN generates regions of interest to the input image, whereas in Fast R-CNN regions of interest are an input (as opposed to generating them).

