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Started on	Thursday, 4 March 2021, 2:05 PM		
State	Finished		
Completed on	Thursday, 4 March 2021, 2:25 PM		
Time taken	19 mins 22 secs		
Grade	7.50 out of 10.00 (75 %)		
Question 1			
Partially correct			
Mark 0.50 out of 3.00			
Which of the followi	ing statements are correct w.r.t. the issue of class imbalance and ways to mitigate it?		
	ies to correct class imbalance by assigning lower weight to easier samples. A HIGHER gamma implies v ge to simpler samples.		
b. Class imbala	ance may be corrected using hard negative mining		
☑ c. Class imbalance in detection is caused by the relatively large number of NON-OBJECT classes			
 d. Focal loss tries to correct class imbalance by assigning lower weight to easier samples. A LOWER gamma implies less weightage to simpler samples. 			
e. Class imbala	ance in detection is caused by the relatively large number of OBJECT classes		
Your answer is parti	ially correct.		
You have correctly s	selected 2.		
The correct answers	's are:		
Class imbalance in	detection is caused by the relatively large number of OBJECT classes,		
Class imbalance may be corrected using hard negative mining,			
Focal loss tries to co weightage to simple	correct class imbalance by assigning lower weight to easier samples. A HIGHER gamma implies less er samples.		

Question 2	
Correct Mark 4.00 out of 4.00	
INIAIX 4.00 Out of 4.00	
Which of the following techniques make Faster R-CNN improve its speed and accuracy of bounding boxes?	
a. Use of Region Proposal networks before convolutional layers for feature extraction	
b. Use Convolutional layers before Region Proposal	~
c. Use of shift and scale estimation of region proposals during bounding box regression.	~
d. The possibility of end-to-end training of the complete network	~
e. Use of fixed set of aspect ratios for the bounding box in region proposals	~
☐ f. Use of arbitrary aspect ratios during region proposals	
Your answer is correct.	
The correct answers are: Use Convolutional layers before Region Proposal,	
Use of fixed set of aspect ratios for the bounding box in region proposals,	
Use of shift and scale estimation of region proposals during bounding box regression., The possibility of end the complete network	I-to-end training of
Question 3 Correct	
Mark 3.00 out of 3.00	
Which of the following are potential improvements that were proposed to improve Single-Stage bounding bo	x detectors?
a. Predict corners of the bounding box instead of width and height of the bounding box	~
b. Predict center region of the bounding box in addition to corners	~
c. Predict the extreme points of an object instead of bounding box corners	~
d. Predict a convex hull of the object instead of rectangular bounding box.	
 e. Predict the center and radius of the object instead of a bounding box. 	
Your answer is correct.	
The correct answers are: Predict corners of the bounding box instead of width and height of the bounding box,	
Predict center region of the bounding box in addition to corners,	
Predict the extreme points of an object instead of bounding box corners	
Jump to	