

! Try again once you are ready

TO PASS 80% or higher

Correct!





Introduction and Concepts of Computer Vision

	LATEST SUBMISSION GRADE 50%			
1.	In a Multi-Class classification scenario, your model can identify all the different items and people that are present in a given input image. True False	0 / 1 point		
	Incorrect! The above statement is true for a <i>Multi-Label</i> classification			
2.	 Which of the following statements correctly describes the difference between <i>object detection</i> and <i>object localization</i>? Object localization is where you get a bounding box around the <i>main</i> subject of the image, while in <i>object detection</i> you get a bounding box around <i>all</i> of the objects within an image. Object detection refers to detecting the object within an image, while <i>object localization</i> gives us the bounding box around that object. Object detection where you get a bounding box around the <i>main</i> subject of the image, while in <i>object localization</i> you get a bounding box around <i>all</i> of the objects within an image. They both are the same. 	0 / 1 point		
3.	Incorrect Incorrect! Each of these techniques detect and draw. What is the method that locates an object(s) by labelling the pixels, where each similar object(s) is assigned to the same class? Type your response here (two words, all lower case).	0/1 point		
	bounding box ! Incorrect Check your spelling.			
4.	In the context of <i>Transfer Learning</i> , the initial training task where the model learns reusable patterns is called a downstream task. True False	1/1 point		
	Correct Correct! The above statement is true for a <i>pre-training task</i> . The task for which the model is borrowed is called <i>downstream task</i> .			
5.	Check all the scenarios in which Transfer Learning could be beneficial. When the task you want to perform is a sub-task of an already trained, larger, model.	1/1 point		
	✓ Correct			

	When you don't have enough data for the task you want to perform, which resembles another same or similar, already trained task.
	✓ Correct Correct!
	✓ To reduce computation and processing cost
	✓ Correct Correct!
	☐ To ensure better performance
6.	What is the name of the built-in TensorFlow layer-type which you can use to increase the dimensions of a 2D image?
	SampleUp2D SampleIncrease
	UpSampling
	UpSampling2D
	✓ Correct Correct!
7.	You have an image of dimensions 48 x 48, and you want to upscale it to 240 x 240 using the built-in TensorFlow layer-type 0 / 1 point which is used to perform such a task (mentioned in Question 6). What will you pass in as size=?
	5
	Incorrect Hint: size is the ratio of the desired and the original dimensions.
8.	Consider the following code: 1/1 point
	<pre>my_layer = tf.keras.applications.resnet.ResNet50(input_shape=(224, 224, 3), include_top=False, weights='imagenet')(inputs)</pre>
	What does "include_top=False" mean? It randomly sets up the weights, instead of using that of ImageNet, for the top most dense layers of ResNet50 when
	initializing <i>my_layer</i> using it.
	It discards the first layer of ResNet50 when initializing my_layer using it. It sets the top most layers as untrainable of ResNet50 when initializing my_layer using it.
	It discards the top most layers of ResNet50 when initializing my_layer using ResNet50.
	✓ Correct Correct!
9.	·
9.	Correct! What is the name of the technique used in the output dense layer that is used to predict Bounding Boxes? (Hint: It is a 0/1 point)

Hint: The answer is the second word of a very basic machine learning technique called *Linear*_____.

0. Check all the statements that are true regarding Intersection Over Union (IoU), with regards to Bounding Boxes.	1/
The values of IoU range from 0 to <i>all</i> possible <i>positive</i> values.	
The closer the value of IoU is to 0 the better is the prediction of the bounding box.	
IoU is the area of intersection of the two boxes (true and predicted) divided by the total union area of the two boxes.	
✓ Correct Correct!	
✓ The closer the value of IoU is to 0 the poorer is the prediction of the bounding box.	
Correct Correct! The lesser the area of intersection the closer to 0 will be the value of IoU	