Your grade: 100%

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Next item →

1.	What are the names of the two functions which are part of the built in solution for training a model in TensorFlow and Keras?	1/1 point
	omodel.build() and model.train()	
	model.compile() and model.fit()	
	model.structure() and model.compute()	
	model.configure() and model.map()	
	⊘ Correct Correct!	
2.	With regards to the loss function, the derivative that gives you the gradient points away from the minimum loss value, but you can still use it for direction by adding the gradient value to your weight, instead of	1/1 point
	subtracting from it.	
	False	
	○ True	
	Correct Correct! You subtract the gradient value from your weights, instead of adding it.	
3.	During training one of the parameters which you have to set is the <i>Learning Rate</i> . Which of the following are true statement(s) for <i>Learning Rate</i> ? Check all that are true.	1/1 point
	A larger learning rate (0.1 as opposed to 0.0001) leads to a bigger update and reaches the minimum loss with fewer iterations, so a larger learning rate is better.	
	$\begin{tabular}{l} \hline & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$	
	With a smaller learning rate (0.0001 as opposed to 0.1), the update to the weight is smaller, and will take more iterations to minimize the loss.	
	⊙ Correct Correct!	
	✓ It defines how big a step to take in the given direction during the update step.	
4.	For creating your own custom training loop, arrange the following steps in the correct order for each training batch:	1/1 point
	Accumulate accuracy metric	
	2. Calculate loss	
	3. Calculate gradients of loss with respect to the model trainable weights	
	Calculate logits Apply gradients on model using optimizer	
	o. Appy gradients on model using optimizer	
	O 2,4,5,3,1	
	4,2,3,5,1	
	O 4,1,5,2,3	
	0 2,1,3,4,5	
	⊘ correct Correct!	

	<pre>with tf.GradientTape() as tape: loss_value, logits = # some code for setting up these values</pre>	
	<pre>gradients = tape.gradient(loss_value, model.trainable_weights) # code for optimizing</pre>	
	return loss_value, logits	
	Which of the following lines of code performs optimization (should appear where you see the comment "# code for optimizing"?	
	O optimizer = apply_gradients(zip(gradients, model.trainable_weights))	
	O optimizer = apply_gradients(gradients, model.trainable_weights)	
	O optimizer.apply_gradients(gradients, model.trainable_weights)	
	$ \textcircled{\scriptsize 0} \text{optimizer.apply_gradients}(\text{zip}(\text{gradients}, \text{model.trainable_weights})) \\$	
	⊘ correct Correct!	
6.	Metrics in Keras can only be called as functions and not instantiated as Classes.	1/1 point
٠.	False	2) 2 point
	O True	
	Correct Correct! They can be instantiated as Class as well.	
7.	Which of the following is the correct syntax for querying the current value of metric for display?	1/1 point
	O metric.get_result	
	• metric.result	
	O metric.state	
	O metric.get_state	
	⊘ correct Correct!	

def apply_gradient(optimizer, model, x, y):