

## ✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 100%

## **Custom Training**

ATEST SUBMISSION GRADE	
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100%

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?  model.build() and model.train()  model.structure() and model.compute()  model.compile() and model.fit()  model.configure() and model.map()	1/1 point
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 subtracting from it.  True  False	1/1 point
	✓ 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.  It defines how big a step to take in the given direction during the update step.	1/1 point
	✓ Correct Correct!	
	<ul> <li>It defines the direction in which we should jump while finding the minimum loss value</li> <li>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.</li> <li>✓ With a smaller learning rate (0.0001 as opposed to 0.1), the update to the weight is smaller, and will take more</li> </ul>	
	iterations to minimize the loss.  Correct Correct!	
4.	For creating your own custom training loop, arrange the following steps in the correct order for each training batch:  1. Accumulate accuracy metric  2. Calculate loss  3. Calculate gradients of loss with respect to the model trainable weights  4. Calculate logits  5. Apply gradients on model using optimizer  4. 1, 5, 2, 3  4. 2, 3, 5, 1  2. 1, 3, 4, 5	1/1 point
	<ul><li>2, 4, 5, 3, 1</li><li>✓ Correct</li><li>Correct!</li></ul>	

✓ 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?

metric.get\_result

metric.get\_state

metric.result

metric.state

✓ Correct