Custom Layers
Graded Quiz * 30 min

Due Jun 19, 12:59 AM EEST

	•	Congratulation Grade received 100%	ns! You passed! Latest Submission Grade 100%	To pass 80% or higher	Go to next item	
	1.	Lambda layer allows to exe True False	ecute an arbitrary function only within	n a Sequential API model.	1/1 point	
	2.	_	is the correct syntax for mapping an i	ncrement of 2 to the value of "x" using	a Lambda 1/1 point	
		layer? (tf = Tensorflow) tf.keras.layers.Lambda(lambda x: tf.math.add(x, 2.0)) tf.keras.Lambda(x: tf.math.add(x, 2.0)) tf.keras.layers.Lambda(x: tf.math.add(x, 2.0)) tf.keras.layers.lambda(x: tf.math.add(x, 2.0))				
3. One	dra	⊙ correct Correct! wback of Lambda la	vers is that vou cannot call a	a custom built function from	within them.	1/1 point
 One drawback of Lambda layers is that you cannot call a custom built function from within them. False True 						17 I point
\odot		orrect!				

4. A Layer is defined by having "States" and "Computation". Consider the following code and check all that are true:

- After training, this class will return a w*X + b computation, where X is the input, w is the weight/kernel tensor with trained values, and b is the bias tensor with trained values.
- You use def build(self, input_shape): to create the state of the layers and specify local input states.

✓ Correct!

def call(self, inputs): performs the computation and is called when the Class is instantiated.

In def __init__(self, units=32): you use the *super* keyword to initialize all of the custom layer attributes

What are the function modifications that are needed for passing an activation function to this custom layer implementation?

_

```
def __init__(self, units=32, activation=None):
```

self.activation = tf.keras.activations.get(activation)

```
def call(self, inputs):
```

return self.activation(tf.matmul(inputs, self.w) + self.b)



Correct

Correct!