

Congratulations! You passed!

Grade received 100% $\,$ To pass 80% or higher

Go to next item

Week 2 Quiz

Latest Submission Grade 100%

1.	What is the correct syntax for the first layer in a convolutional neural network that takes an MNIST (28x28 monochrome) input?			
	Inon	IOCIIIOIII	e) input:	
		1	model.add(tf.layers.conv2d({inputShape: [28, 28, 1], kernelSize: 3, filters: 8, acti	
	0	1	<pre>model.add(tf.layers.conv({inputShape: (28, 28, 1), kernelSize: 3, filters: 8, activa</pre>	
	0			
		2		
	0	1	<pre>model.add(tf.layers.conv({inputShape: [28, 28, 1], kernelSize: 3, filters: 8, activa</pre>	
	⊘) Correct		
2.		t is the c	orrect syntax for adding a maxPooling2D layer to a Convolutional neural network in JavaScript?	1/1 point
	0	1	<pre>model.add(tf.layers.maxPooling2d({poolSize = [2, 2]}));</pre>	
	0	1	<pre>model.add(tf.layers.maxPooling2D({poolSize = [2, 2]}));</pre>	
	•	1	<pre>model.add(tf.layers.maxPooling2d({poolSize: [2, 2]}));</pre>	
	0	1	<pre>model.add(tf.layers.maxPooling2D({poolSize: [2, 2]}));</pre>	
		1	modeling (Luyer 3 million outlings of [poutsteen [& , &] [/])	
	©) Correct		
3.	Wha		orrect syntax for compiling a model with an optimizer, loss function and metrics?	1 / 1 point
	O	1	<pre>model.compile({ optimizer = tf.train.adam(), loss = 'categoricalCrossentropy', metr</pre>	

1 model.compile({ optimizer: tf.train.adam(); loss: 'categoricalCrossentropy'; metric

O 1 tf.train.adam(), tf.loss: 'categoricalCrossentropy', tf.metrics: ['accuracy']});
<pre>model.compile({ optimizer: tf.train.adam(), loss: 'categoricalCrossentropy', n</pre>	netric
⊘ Correct	
4. How do you correctly pass a set of validation data called textXs and testYs to the model.fit method in Java	Script? 1/1 point
Use validationData = [testXs, testYs] in the list of parameters to model.fit	
 Use validationData: [testXs, testYs] in the list of parameters to model.fit Use validationData: [testXs, testYs] in the list of parameters sent as the third parameter to model.fit 	
Use validationData= [testXs, testYs] and pass it to the model.fit method	
○ Correct ○ Corre	
5. How do you get the built in callbacks visualizer with TensorFlow.js?	1/1 point
Include the tfjs-vis script, set a callback in model.fit, and set it to a const that called show.fitCallbacks the tfvis object	() on
O Include the tfjs-vis script, call show.fitCallbacks() on the tfvis object	
O Include the tfjs-vis script, set a callback in model.fit and it will work automatically	
O Include the tfjs-vis script and it will work automatically	
⊘ Correct	
6. If you want to see loss, validation loss, accuracy and validation accuracy on each epoch while training, how you do this?	w do 1/1 point
Create a list containing text values with the names of the analytics you want to capture, i.e. ['loss', 'val 'acc', 'val_acc'] and pass it to fitCallbacks() as a parameter	_loss',
O Create a list containing [1, 1, 1, 1] indicating that you want those 4 values to be true and pass it to the fitCallbacks() as a parameter	
O Create a list setting loss=true, val_loss=true, acc=true, val_acc=true, and pass it to the fitCallbacks() as parameter	s a
O Create a list containing text values ["loss=true", "val_loss=true", "acc=true", "val_acc=true"] and pass i fitCallbacks() as a parameter	t to
⊘ Correct	
7. When using a dataset like MNIST or FashionMNIST, why is it advisable to use a sprite sheet containing all the images?	1/1 point
O It makes the data more secure	
It keeps the data in the native JS format	
It doesn't require any additional pre-processing	
It prevents excessive multiple HTTP calls to download the data	
8. What is the role of tf.tidy() in TensorFlow.js?	1/1 point
When it is executed, it cleans up all intermediate tensors allocated by a function except those returned the function	d by
It shuts down tensorflow when done, cleaning up all memory	
When it is executed, it removes everything tensorflow from the browser memory and cache	
When it is executed it clears memory for new tensors	
○ Correct	