

✓ Congratulations! You passed!

TO PASS 80% or higher



grade 100%

Week 2 Quiz

LATEST SUBMISSION GRADE 100%

10070		
1. What	is the correct syntax for the first layer in a convolutional neural network that takes an MNIST (28x28 monochrome) ?	1/1 point
•		
	<pre>1 model.add(tf.layers.conv2d({inputShape: [28, 28, 1], kernelSize: 3, filters: 8, activatio</pre>	
0		
	<pre>1 model.add(tf.layers.conv({inputShape: (28, 28, 1), kernelSize: 3, filters: 8, activation:</pre>	
0		
	<pre>1 model.add(tf.layers.conv2d({inputShape: [28, 28], kernelSize: 3, filters: 8, activation: 2</pre>	
	<pre>1 model.add(tf.layers.conv({inputShape: [28, 28, 1], kernelSize: 3, filters: 8, activation:</pre>	
<i></i>	✓ Correct	
2. What	is the correct syntax for adding a maxPooling2D layer to a Convolutional neural network in JavaScript?	1 / 1 point
	<pre>1 model.add(tf.layers.maxPooling2D({poolSize: [2, 2]}));</pre>	
0		
	<pre>1 model.add(tf.layers.maxPooling2D({poolSize = [2, 2]}));</pre>	
0		
	<pre>1 model.add(tf.layers.maxPooling2d({poolSize = [2, 2]}));</pre>	
<u></u>		
•	<pre>1 model.add(tf.layers.maxPooling2d({poolSize: [2, 2]}));</pre>	
~	✓ Correct	

1 model.compile({ optimizer: tf.train.adam(), loss: 'categoricalCrossentropy', metrics: ['
1 model.compile({ tf.optimizer: tf.train.adam(), tf.loss: 'categoricalCrossentropy', tf.me
<pre>1 model.compile({ optimizer: tf.train.adam(); loss: 'categoricalCrossentropy'; metrics: ['</pre>
<pre>1 model.compile({ optimizer = tf.train.adam(), loss = 'categoricalCrossentropy', metrics =</pre>
✓ Correct
w do you correctly pass a set of validation data called textXs and testYs to the model.fit method in JavaScript?
Use validationData= [testXs, testYs] and pass it to the model.fit method
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
✓ Correct
w do you get the built in callbacks visualizer with Tongor Flow in 2
w do you get the built in callbacks visualizer with TensorFlow.js?
Include the tfjs-vis script, set a callback in model.fit and it will work automatically
Include the trijs-vis script, call show.fitCallbacks() on the trijs object
Include the tfjs-vis script, set a callback in model.fit, and set it to a const that called show.fitCallbacks() on the tfvis object
Include the tfjs-vis script and it will work automatically
✓ Correct
ou want to see loss, validation loss, accuracy and validation accuracy on each epoch while training, how do you do this?
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
$\label{loss-true} Create \ a \ list containing \ text \ values \ ["loss=true", "val_loss=true", "acc=true", "val_acc=true"] \ and \ pass \ it \ to \ fit Callbacks() \ as \ a \ parameter$
Create a list setting loss=true, val_loss=true, acc=true, val_acc=true, and pass it to the fitCallbacks() as a parameter
$\label{lem:containing} Create a list containing text values with the names of the analytics you want to capture, i.e. ['loss', 'val_loss', 'acc', 'val_acc'] and pass it to fitCallbacks() as a parameter$
✓ Correct
en using a dataset like MNIST or FashionMNIST, why is it advisable to use a sprite sheet containing all the images?
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
✓ Correct
at is the role of tf.tidy() in TensorFlow.js?
When it is executed, it cleans up all intermediate tensors allocated by a function except those returned by the
function When it is executed it removes everything tensorflow from the browser memory and cache.
When it is executed, it removes everything tensorflow from the browser memory and cache
It shuts down tensorflow when done, cleaning up all memory When it is executed it clears memory for new tensors
✓ Correct