Week 2 Quiz

LATEST SUBMISSION GRADE

100%

 What is the correct syntax for the first layer in a convolutional neural network that takes an MNIST (28x28 monochrome) input? 1/1 point

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```
1 model.add(tf.layers.conv({inputShape: (28, 28, 1), kernelSize: 3, filters: 8,
activation: 'relu'}));
```

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```
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activation: 'relu'}));
```

4.	How do you correctly pass a set of validation data called textXs and testYs to the model.fit method in JavaScript?	1/1 po
	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	
5.	How do you get the built in callbacks visualizer with TensorFlow.js?	1/1 po
	Include the tfjs-vis script, call show.fitCallbacks() on the tfvis object	
	Include the tfjs-vis script and it will work automatically	
	 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 	
	O Include the tfjs-vis script, set a callback in model.fit 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 do you do this?	1/1 po
	Oreate 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	
	Create a list setting loss=true, val_loss=true, acc=true, val_acc=true, and pass it to the fitCallbacks() as a parameter	
	Create a list containing text values ["loss=true", "val_loss=true", "acc=true", "val_acc=true"] and pass it to fitCallbacks() as a parameter	
	Oreate 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	

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	✓ 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
	It doesn't require any additional pre-processing	
	It prevents excessive multiple HTTP calls to download the data	
	It makes the data more secure	
	It keeps the data in the native JS format	
	✓ Correct	
8.	What is the role of tf.tidy() in TensorFlow.js?	1/1 point
	When it is executed it clears memory for new tensors	
	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 cleans up all intermediate tensors allocated by a function except those returned by the function	
	✓ Correct	