Graded quiz _ C2W3

To pass 80% or

higher

Latest Submission

Grade 100%

Congratulations! You passed!

received 100%

1. If I put a dropout parameter of 0.2, how many nodes will I lose? 20% of them 2% of them 20% of the untrained ones 2% of the untrained ones ✓ Correct Spot on! **2.** Why is transfer learning useful? O Because I can use all of the data from the original training set Because I can use all of the data from the original validation set Because I can use the features that were learned from large datasets that I may not have access to Because I can use the validation metadata from large datasets that I may not have access to ✓ Correct Exactly! 3. How did you lock or freeze a layer from retraining? tf.freeze(layer) tf.layer.frozen = true tf.layer.locked = true layer.trainable = false **⊘** Correct Well done!

	low do you change the number of classes the model can classify when using transfer learning? (i.e. the original nodel handled 1000 classes, but yours handles just 2)
(Ignore all the classes above yours (i.e. Numbers 2 onwards if I'm just classing 2)
(Use all classes but set their weights to 0
(When you add your DNN at the bottom of the network, you specify your output layer with the number of classes you want
(Use dropouts to eliminate the unwanted classes
5. 0	an you use Image Augmentation with Transfer Learning Models?
(No, because you are using pre-set features
(Yes, because you are adding new layers at the bottom of the network, and you can use image augmentation when training these
	Correct!
6. W	/hy do dropouts help avoid overfitting?
(Because neighbor neurons can have similar weights, and thus can skew the final training
	Having less neurons speeds up training
	○ Correct That's right!
7. W	/hat would the symptom of a Dropout rate being set too high?
(The network would lose specialization to the effect that it would be inefficient or ineffective at learning, driving accuracy down
	Training time would increase due to the extra calculations being required for higher dropout
	○ Correct Indeed!

8.	Which is the correct line of code for adding Dropout of 20% of neurons using TensorFlow
	tf.keras.layers.Dropout(20)
	tf.keras.layers.DropoutNeurons(20),
	tf.keras.layers.Dropout(0.2),
	tf.keras.layers.DropoutNeurons(0.2),