Congratulations! You passed!
TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 3 Quiz

LATEST SUBMISSION GRADE
100%

1. If I put a dropout parameter of 0.2, how many nodes will I lose? — 1 / 1 point

- (●) 20% of them
- ( ) 2% of them
- ( ) 20% of the untrained ones
- ( ) 2% of the untrained ones

✓ Correct

2. Why is transfer learning useful? — 1 / 1 point

- ( ) 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

3. How did you lock or freeze a layer from retraining? — 1 / 1 point

- ( ) tf.freeze(layer)
- ( ) tf.layer.frozen = true
- ( ) tf.layer.locked = true
- (●) layer.trainable = false

✓ Correct

4. How do you change the number of classes the model can classify when using transfer learning? (i.e. the original model handled 1000 classes, but yours handles just 2) — 1 / 1 point

- ( ) 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

✓ Correct

5. Can you use Image Augmentation with Transfer Learning Models? — 1 / 1 point

- ( ) 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. Why do dropouts help avoid overfitting? — 1 / 1 point

- (●) Because neighbor neurons can have similar weights, and thus can skew the final training

- Having less neurons speeds up training

Correct

7. What would the symptom of a Dropout rate being set too high? 1 / 1 point

- 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

8. Which is the correct line of code for adding Dropout of 20% of neurons using TensorFlow 1 / 1 point

- tf.keras.layers.Dropout(20)
- tf.keras.layers.DropoutNeurons(20),
- tf.keras.layers.Dropout(0.2),
- tf.keras.layers.DropoutNeurons(0.2),

Correct