

Graded Quiz: Test Your Project Understanding

LATEST SUBMISSION GRADE

100%

1. What does the following code return?

1 / 1 point

```
1 df.isnull()
```

- ☐ Float values
- ☐ Int values
- ☒ Boolean Values
- ☐ String values

✓ Correct

Great job! It returns True or False (i.e.: boolean values).

2. While training your CNN model, you found that the training accuracy is 98% and the validation accuracy is 80%. What could be the reason for this?

1 / 1 point

- ☐ Model generalized well because of underfitting
- ☐ Model generalized poorly because of underfitting
- ☒ Model generalized poorly because of overfitting

✓ Correct

Great job! Since the training accuracy is very high and the validation score is low, it means that the model has overfitted the training data and it did not generalize well.

3. Does this code shuffle and split the data?

1 / 1 point

```
1 X_train, X_test, y_train, y_test = train_test_split(X,y, test_size = 0.1)
```

- ☒ Yes
- ☐ No, it does not.

✓ Correct

Great job! By default, train_test_split shuffles the data while splitting.

4. What happens when you remove MaxPool2D layer from the res_block function?

1 / 1 point

- ☒ Training time increases.

✓ Correct

Great job! When you remove maxpooling layers, you increase the number of features that are passed to the next layers, which in-turn increases the training time.

- ☒ Total number of trainable parameter increases.

✓ Correct

Great job! When you remove maxpooling layers, you increase the number of features that are passed to the next layers, which in-turn increases the number of trainable parameters.

- ☐ Training time decreases.
- ☐ Total number of trainable parameters decreases.

5. After training the model, you note that the model is over-fitting. What changes can be made to the model architecture to avoid over-fitting

1 / 1 point

- ☒ Add dropout
- ☐ Add an additional dense layer
- ☐ Use early stopping
- ☐ Use more dataset

✓ Correct

Excellent job! Since the question is about making changes to the network architecture to improve the model generalization, adding dropout layer is the correct option. Dropout layer switches off random neurons while training, therefore enabling the model to generalize well.

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