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3.1 Test Your Understanding

Type	:	Practice Quiz
Questions	:	6
Scoring Policy	:	Highest Score
Your Marks	:	6/6

RETAKE

Attempt History

Attempt #1

Aug 11, 8:54 AM

Marks: 6

Q No: 1 (Correct Answer)

Marks: 1/1

State whether the following statement is true or false.

'The cross-validation approach gives a better view of model performance as it runs the training/testing cycle on many folds. '

⦿ True   You Selected

◯ False

The cross-validation approach splits the data into k-folds, each fold is used in both training and testing for different iterations. The iterative process gives a better view of the model performance.

Q No: 2 (Correct Answer)

Marks: 1/1

State whether the following statement is true or false.

'Good model performance on train and test dataset means that the model will always show good performance when deployed on real-world data'

◯ True

⦿ False   You Selected

It is not always necessary that the model will perform well on real-world data. There can be many variations in the real data for which our model is not trained.

Q No: 3 (Correct Answer)

Marks: 1/1

How many times will the model be trained if k=5 in Kfold cross-validation?

- ○ 4

- ○ 10

- ○ 3

- ◉ 5 (You Selected)

In Kfold CV, data is divided into k folds and trains the model k times where k-1 folds are used in training and 1 fold is used in testing at every iteration.

Q No: 4 (Correct Answer)

Marks: 1/1

What will be the impact of the large value of K in K-fold cross-validation?

- ◉ The variation across the training set will decrease (You Selected)

- ○ The variation across the training set will increase

- ○ The variation across the training set will be zero

- ○ The variation across the training set will be maximum

If k is large then there will be very less variation in the training set because folds will be closer to the total data points in the dataset.

Q No: 5 (Correct Answer)

Marks: 1/1

What could be the maximum value of K in K-fold cross-validation?

- ◉ No. of observations in the data (You Selected)

- ○ 2

- ○ No. of features

The maximum value of K could be equal to the number of observations in the data.

Q No: 6 (Correct Answer)

Marks: 1/1

If 90,85,78,88,85 are the cross-validated scores then what would be the average cross-validation score?

- ⦿ 85.2   You Selected

- ○ 90

- ○ 78

The average score would be (90 + 85 + 78 + 88 + 85)/5 = 82.5

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