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| **Started on** | Friday, 29 September 2023, 1:32 PM |
| **State** | Finished |
| **Completed on** | Friday, 29 September 2023, 1:36 PM |
| **Time taken** | 3 mins 54 secs |
| **Grade** | **4.00** out of 5.00 (**80**%) |

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Question **1**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Match the following correctly:

(1) →→(a), (2) →→(b), (3) →→( c)

(1) →→ (c), (2) →→ (a), (3) →→ (b)

(1) →→ (b), (2) →→ (c), (3) →→ (a)

(1) →→ (b), (2) →→ (a), (3) →→ ( c)

Feedback

Your answer is incorrect.

The correct answer is:

(1) →→ (b), (2) →→ (a), (3) →→ ( c)

Question **2**

Correct

Mark 0.50 out of 0.50

Flag question

Question text

Choose the correct sequence of steps for k-fold cross-validation:

1. Use k-1 parts of the data for training and 1 part for validation to find error/performance metric

2. Divide the sample data into k parts

3. Repeat the cross-validation process ‘k’ times using a distinct part each time as test data.

4. Take an average of the ‘k’ number of results (error/performance metric) with distinct validation sets each time to produce the final result

2,1,3,4

1,2,3,4

3,1,2,4

4,1,3,2

Feedback

Your answer is correct.

The correct answer is:

2,1,3,4

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Select the correct statement(s) regarding Categorical variables:

1. For Ordinal data, change in the order of categories doesn’t affect its value.
2. For Nominal data, change in the order of categories doesn’t affect its value.
3. For Ordinal data, change in the order of categories is not allowed.
4. For Nominal data, change in the order of categories is not allowed.

1 and 4

2 and 3

Only 1

Only 2

Feedback

Your answer is correct.

**Explanation:**Ordinal categorical data are non-numerical pieces of information with implied order — for example, survey responses on a scale from very dissatisfied to very satisfied. And nominal categorical data are non-numerical pieces of information without any inherent order — for example, colors or states.

The correct answer is:

2 and 3

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

 The “. score” method is available for evaluating linear regression in Sk-Learn, which of the following metrics is being applied inside the library?

MSE

RMSE

MAE

Coefficient of Determination (R2)

Feedback

Your answer is correct.

The correct answer is:

Coefficient of Determination (R2)

Question **5**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The general framework of Machine learning is:  Transformation (Data Pre-processing) →→ Estimator (Model building) →→ Evaluation.

Identify which aspect of above steps is being discussed in the following statement - “From features and target, we try to approximate a function that maps features into target. "

Transformation

Estimator

Evaluation

None of above

Feedback

Your answer is correct.

The correct answer is:

Estimator

Question **6**

Correct

Mark 0.50 out of 0.50

Flag question

Question text

Select the correct statement(s) regarding K-Fold cross-validation:

1. All samples in the dataset are part of a validation subset at least once.
2. Training and validation are repeated k-1 times each
3. Training and validation are repeated k times each

Only 1

1 and 3

Only 2

2 and 3

Feedback

Your answer is correct.

Explanation: Statements 1 and 3 are True. Statement 2 is False.

All samples in the dataset are part of a validation subset at least once, where in k-fold cross-validation, training and validation are repeated for k times each.

The correct answer is:

1 and 3

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