



Score: 93%

No. of questions: 8

Correct answer: 7

Incorrect answer: 1

Show incorrect attempt only ☐

Question 1

1 Mark

Which of the following central tendencies are useful in case of a regression problem?

1. Mean
2. Median
3. Mode
4. Variance

A 1 and 3

B 2 and 4

C 1 and 2

D All of the above



Correct Answer: C. 1 and 2

In case of regression, the target variable is continuous. Hence, mean and median can be used depending on the distribution. Mode is used when the target is categorical whereas, variance is not a measure of central tendency.



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Question 2

2 Marks

Why do we set the random state?

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A To get random results every time we run the same model.

B To get the same results every time we run the same model. 

Correct Answer: B. To get the same results every time we run the same model.

train_test_split in scikit learn splits the dataset into training and test subsets using random state. Train and test splits can differ when a random state is not set and hence, the performance of model may vary. In order to have similar performance, we set the random state.

Question 3

3 marks

Consider a dataframe named 'df' that has a variable named Item_MRP. Which of the following commands can be used to calculate the mean of this variable?

A Item_MRP.mean()

B df['Item_MRP'].mean

C df['Item_MRP'].mean() 

Correct Answer: C. df['Item_MRP'].mean()

The right syntax to compute the mean of a column (Item_MRP) in a dataframe(df) is df['Item_MRP'].mean().

Question 4

1 Mark

Suppose you have a problem where you want to predict whether a passenger onboard the Titanic will survive or not (Yes/No). As a benchmark model, how will you predict the target variable in this case?

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Mean

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B

Mode



Correct Answer: B. Mode

Since the target variable is categorical (Yes/No), mode is the right answer.

Question 5

2 Marks

Mean absolute error can have a negative value.

A

True

B

False



Correct Answer: B. False

Absolute of a negative number is a positive. Hence, mean absolute error is always positive.

Question 6

3 marks

What are the different steps involved in the model building process?

A

Hypothesis Generation

B

Dataset creation

C

Training the model



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D

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Correct Answer: E. All of the above

All the mentioned steps are part of the model building process.

Question 7

1 Mark

The test dataset is used to train the model.

A True

B False



Correct Answer: B. False

Training data is used to train the model whereas test dataset is used to evaluate the performance of the model.

Question 8

2 Marks

"Predict the sales for a big mart" - this is a classification problem.

A True

B False



Correct Answer: B. False

Since the target variable takes continuous values, the problem is said to be a regression task.



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