Assignment-6

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-04-10, 23:59 IST.

1) Identify the correct statement in context of Regressive model of Machine Learning.

- Regressive model predicts a numeric value instead of category
- Regressive model organizes similar item in your dataset into groups
- Regressive model comes up with a set of rules to capture associations between items or events
- None of the Mentioned

No, the answer is incorrect.
Score: 0
Accepted Answers:
Regressive model predicts a numeric value instead of category

2) Which of the following is required by K-means clustering?

- Defined distance metric
- Number of clusters
- Initial guess as to cluster centroids
- All of the mentioned

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the mentioned

3) True or False?

If your model has very low training error but high generalization error, then it is overfitting.

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
None of the Mentioned
You trained a model on training dataset and get the below confusion matrix on validation dataset.

Based on the above confusion matrix, choose which option(s) below will give you correct predictions?

1. Accuracy is ~0.91
2. Misclassification rate is ~ 0.91
3. False positive rate is ~0.95
4. True positive rate is ~0.95

No, the answer is incorrect.
Score: 0
Accepted Answers: 1 and 4

5) Identify the correct method for choosing the value of ‘k’ in k-means algorithm? 1 point

- Dimensionality reduction
- Elbow method
- Data partitioning
- Both Dimensionality reduction and Elbow method

No, the answer is incorrect.
Score: 0
Accepted Answers: Both Dimensionality reduction and Elbow method

6) Identify the correct statement(s) in context of machine learning approaches: 1 point

Statement I: In supervised approaches, the target that the model is predicting is unknown or unavailable. This means that you have unlabeled data.

Statement II: In unsupervised approaches the target, which is what the model is predicting, is provided. This is referred to as having labeled data because the target is labeled for every sample that you have in your data set.

- Only statement I is true
- Only statement II is true
- Both statements are true
- Both statements are false

No, the answer is incorrect.
Score: 0
7) Identify the correct statement(s) in context of overfitting in decision trees: 1 point

Statement I: The idea of Pre-pruning is to stop tree induction before a fully grown tree is built, that perfectly fits the training data.

Statement II: The idea of Post-pruning is to grow a tree to its maximum size and then remove the nodes using a top-bottom approach.

- Only statement I is true
- Only statement II is true
- Both statements are true
- Both statements are false

No, the answer is incorrect.
Score: 0

Accepted Answers:
Only statement I is true

8) Which of the following options is/are true for K-fold cross-validation? 1 point

1. Increase in K will result in higher time required to cross validate the result.
2. Higher values of K will result in higher confidence on the cross-validation result as compared to lower value of K.
3. If K=N, then it is called Leave one out cross validation, where N is the number of observations.

- 1 and 2
- 2 and 3
- 1 and 3
- 1, 2 and 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1, 2 and 3