

Quiz: Machine Learning Algorithms

We'll cover the following ^

- Time to Test Your Skills!

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1

Suppose you have the record of number of rainy days in October for the last 20 years. What is the best model to estimate the number of rainy days for current October?

☐

A) Linear Regression

☐

B) Logistic Regression

2

In order to train a model to identify a cat and a dog, which of the following regressions will be used?

☐

A) Linear Regression

☐

B) Logistic Regression

3

Which of the following models allow regression and classification both?

☐

A) Decision Trees

☐

B) Linear Regression

☐

C) K- Nearest Neighbor

4

Suppose I am building a search application and I'm looking for a model to find items similar to my new item. What is the best model you would suggest me to use?

☐

A) Decision Tree

☐

B) Support Vector Machine

☐

C) K Nearest Neighbor

5

Suppose you have unlabeled training data and you have to group data points of similar kind. Which is the best algorithm below that would solve your problem?

☐ A) Decision Tree

☐ B) K Nearest Neighbor

☐ C) K Means

6

Dimensional reduction means to:

☐ A) reduce the variable in your dataset by getting the set of principal variables

☐ B) reduce the size of data by stripping off the rows in the dataset

7

The _____ of a dataset represents the number of features in the dataset.

☐ A) Resolution

☐ B) Density

☐ C) Dimensionality

☐ D) Coarseness

8

Suppose you are working on stock market prediction. Typically tens of millions of shares of Microsoft stock are traded each day. You would like to predict the number of Microsoft shares that will be traded tomorrow. Would you treat this as a classification or a regression problem?

☐ A) Regression

☐ B) Classification

9

“Regression” technique is a group of algorithms that are used for:

☐ A) predicting a continuous value, for example predicting price of a house based on its characteristics.

☐ B) prediction of class/category, for example a cell is benign or malignant, or a customer will buy your product or not.

☐ C) finding items/events that often occur together, for example grocery items that are usually bought together by a customer.

Which of the following is NOT TRUE about Machine Learning?

- ☐ A) Machine Learning was inspired by human being learning process.
- ☐ B) Machine Learning models iteratively learn from data, and allow computers to find hidden insights.
- ☐ C) Machine Learning models help us in tasks such as object recognition, summarization, and recommendation.
- ☐ D) Machine learning gives computers the ability to make decision by writing down rules and methods and being explicitly programmed.

CHECK ANSWERS