MACHINE LEARNING

1. Movie Recommendation systems are an example of:

Ans: b) 1 and 2

1. Sentiment Analysis is an example of:

Ans: d) 1, 2 and 4

1. Can decision trees be used for performing clustering?

AnsL: a) True

1. Which of the following is the most appropriate strategy for data cleaning before performing clustering analysis, given less than desirable number of data points:

Ans: b) 2 only

1. What is the minimum no. of variables/ features required to perform clustering?

Ans: 1

1. For two runs of K-Mean clustering is it expected to get same clustering results?

Ans: No

1. Is it possible that Assignment of observations to clusters does not change between successive iterations in K-Means

Ans: No

1. Which of the following can act as possible termination conditions in K-Means?

Ans: b) 1, 2 and 3

1. Which of the following algorithms is most sensitive to outliers?

Ans: a) K-means clustering algorithm

1. How can Clustering (Unsupervised Learning) be used to improve the accuracy of Linear Regression model (Supervised Learning):

Ans: d) All of the above

1. What could be the possible reason(s) for producing two different dendrograms using agglomerative clustering algorithms for the same dataset?

Ans: d) All of the above

1. Is K sensitive to outliers?

Ans: It is sensitive to outliers But sometime K-Means algorithm does not give best resultsAn outlier is a point which is different from the rest of data points.

1. Why is K means better?

Ans: Ans: K-means clustering uses “centroids”, K different randomly-initiated points in the data, and assigns every data point to the nearest centroid. After every point has been assigned, the centroid is moved to the average of all of the points assigned to it.

1. Is K means a deterministic algorithm

Ans: The basic k-means clustering is based on a non-deterministic algorithm. This means that running the algorithm several times on the same data, could give different results. However, to ensure consistent results, FCS Express performs k-means clustering using a