

Medi-caps University

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*** Required**

Quiz II

All Questions are Compulsory

The most popularly used dimensionality reduction algorithm is Principal Component Analysis (PCA). Which of the following is/are true about PCA? 1 point

1. PCA is an unsupervised method 2. It searches for the directions that data have the largest variance 3. Maximum number of principal components \leq number of features 4. All principal components are orthogonal to each other *

- ☐ A. 1 & 2
- ☐ B. 2 & 3
- ☐ C. 3 & 4
- ☒ D. all of the above

Dimensionality reduction algorithms are one of the possible ways to reduce the computation time required to build a model. 1 point *

- ☒ A. TRUE
- ☐ B. FALSE



Which of the following is a bad characteristic of a dataset for clustering analysis- *

1 point

- ☐ A. Data points with outliers
- ☐ B. Data points with different densities
- ☐ C. Data points with non-convex shapes
- ☒ D. All of the above

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

1 point

- ☐ 0
- ☒ 1
- ☐ 2
- ☐ 3

What are the three pillars of Netflix's Recommendation Engine? *

1 point

- ☐ History of films and TV Series, History of User on Netflix, Taggers who tag content
- ☐ History of films and TV Series, History of User on Netflix, Machine Learning Algorithm
- ☐ History of User on Netflix, History of films and TV Series, Taggers who tag content
- ☒ History of User on Netflix, Taggers who tag content, Machine Learning Algorithm



Which of the step is not required for K-means clustering? *

1 point

- ☐ A. a distance metric
- ☐ B. initial number of clusters
- ☐ C. initial guess as to cluster centroids
- ☒ D. None

Movie Recommendation systems are an example of:1. Classification 2. Clustering 3.Reinforcement Learning 4.Regression *

1 point

- ☐ 2 Only
- ☐ 1 and 2
- ☐ 1 and 3
- ☒ 2 and 3

What are different Recommendation Engine techniques? *

1 point

- ☐ Content based filtering
- ☐ Collaborative filtering
- ☒ Both A and B
- ☐ None of the above



Why are recommendation engines becoming popular? *

1 point

- ☒ Users have lesser time, more options and face an information overload
- ☐ It is mandatory to have recommendation engine as per telecom rules
- ☐ It is better to recommend than ask user to search on mobile phones
- ☐ Users don't know what they want

PCA reduces the dimension by finding a few _____. *

1 point

- ☐ A. Hexagonal linear combination
- ☒ B. Orthogonal linear combinations
- ☐ C. Octagonal linear combination
- ☐ D. Pentagonal Linear Combination

What will happen when eigenvalues are roughly equal? *

1 point

- ☐ A. PCA will perform outstandingly
- ☒ B. PCA will perform badly
- ☐ C. Can't Say
- ☐ D. None of above

Which version of the clustering algorithm is most sensitive to outliers? *

1 point

- ☒ A. K-means clustering algorithm
- ☐ B. K-modes clustering algorithm
- ☐ C. K-medians clustering algorithm
- ☐ D. None



Point out the wrong statement. *

1 point

- ☐ a) k-means clustering is a method of vector quantization
- ☐ b) k-means clustering aims to partition n observations into k clusters
- ☒ c) k-nearest neighbor is same as k-means
- ☐ d) none of the mentioned

There are _____ major Classification of Collaborative Filtering Mechanisms * 1 point

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ none of above

PCA is a _____. *

1 point

- ☐ A. Non linear method
- ☒ B. Linear method
- ☐ C. Continuous method
- ☐ D. Repeated method

K-means is not deterministic and it also consists of number of iterations. * 1 point

- ☒ a) True
- ☐ b) False



Which of the following is an application of clustering? *

1 point

- ☐ A. Biological network analysis
- ☐ B. Market trend prediction
- ☐ C. Topic modeling
- ☒ D. All of the above

_____ is a tool which is used to reduce the dimension of the data. *

1 point

- ☒ A. Principal components analysis
- ☐ B. Product Components analysis
- ☐ C. Principle Components analysis
- ☐ D. Pre Complex analysis

The goal of clustering is to- *

1 point

- ☒ A. Divide the data points into groups
- ☐ B. Classify the data point into different classes
- ☐ C. Predict the output values of input data points
- ☐ D. All of the above



_____ recommenders rely on an explicitly defined set of recommendation rules * 1 point

- ☐ Constraint Based
- ☒ Case Based
- ☐ Content Based
- ☐ User Based

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