Machine Learning

Data Pre Processing

Regression

Classification

Clustering

Reinforcement Learning

Natural Language Processing

Artificial Intelligence

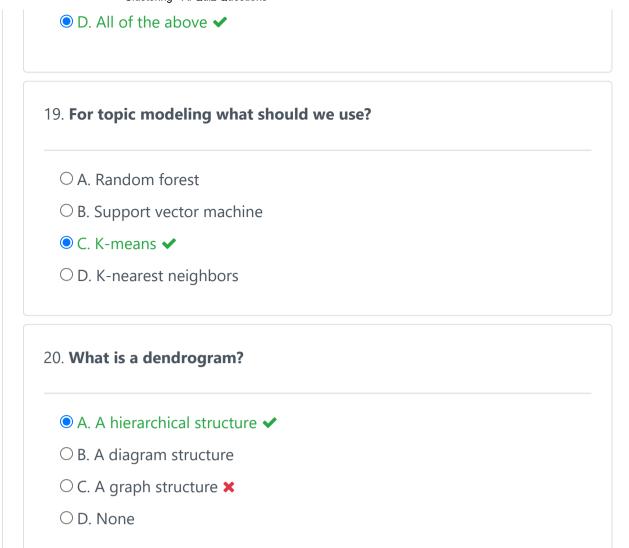
QUIZ TOPIC - CLUSTERING

A. Divi	de the data points into groups ✔
OB. Clas	sify the data point into different classes
○ C. Pred	lict the output values of input data points
O D. All o	of the above
2. Clusterir	ng is a-
O A. Sup	ervised learning
B. Uns	upervised learning 🗸
○ C. Rein	forcement learning
O D. Nor	ne
	f the following clustering algorithms suffers from the fonce of local optima?
○ A. K- N	Means clustering
○ B. Hier	archical clustering
OC. Dive	erse clustering
OD. All	of the above 🗸
4. Which v	ersion of the clustering algorithm is most sensitive to outliers?
A. K-m	eans clustering algorithm 🗸
○ B. K-m	odes clustering algorithm
○ C. K-m	edians clustering algorithm
O D. Nor	ne
5. Which o	f the following is a bad characteristic of a dataset for analysis-
O A. Data	a points with outliers
○ B. Data	a points with different densities
○ C. Data	a points with non-convex shapes
OD. All o	of the above ✔
5. For clust	ering, we do not require-
A. Labe	eled data ✔

Clustering - Ai	Quiz Questions
O C. Numerical dat	:a
O D. Categorical da	ata
7. Which of the follo	owing is an application of clustering?
○ A. Biological net	work analysis
○ B. Market trend	prediction
○ C. Topic modelin	g
D. All of the above	ve ✔
8. On which data ty p	pe, we can not perform cluster analysis?
○ A. Time series da	ata
○ B. Text data	
○ C. Multimedia da	ata
● D. None	
9. Netflix's movie re	commendation system uses-
○ A. Supervised lea	arning
○ B. Unsupervised	learning
© C. Reinforcemen	t learning 🗸
O D. All of the above	ve
10. The final output	of Hierarchical clustering is-
○ A. The number o	of cluster centroids
B. The tree repre	senting how close the data points are to each other 🗸
○ C. A map definin	g the similar data points into individual groups
O D. All of the above	ve
11. Which of the ste	p is not required for K-means clustering?
○ A. a distance me	tric
○ B. initial number	of clusters
○ C. initial guess as	s to cluster centroids
● D. None	
12. Which is the foll o	owing is wrong?
○ A. k-means clust	ering is a vector quantization method
○ B. k-means cluste	ering tries to group n observations into k clusters
○ C. k-nearest neight	ghbor is same as k-means ✔

O D. None

O A. Hie	rarchical clustering 🗸
○ B. Part	itional clustering
O C. Der	sity-based clustering
O D. All	of the above
	of the following is a method of choosing the optimal number for k-means?
O A. cros	ss-validation
○ B. the	silhouette method
○ C. the	elbow method
OD. All	of the above 🗸
5. When (does k-means clustering stop creating or optimizing clusters?
O A. Afte	er finding no new reassignment of data points
○ B. Afte	r the algorithm reaches the defined number of iterations
OC. Bot	n A and B 🗸
OD. Nor	ne
	of the following clustering algorithm follows a top to bottom
pproach?	
pproach?	neans
Pproach? O A. K-m B. Divi	neans sible 🛩
A. K-m B. Divi	neans sible ✔ Ilomerative
Pproach? O A. K-m B. Divi	neans sible ✔ Ilomerative
Pproach? A. K-m B. Divi C. Agg D. Nor	neans sible ✔ Ilomerative
Pproach? A. K-m B. Divi C. Agg D. Nor	neans sible ✓ plomerative ne algorithm does not require a dendrogram?
Pproach? A. K-m B. Divi C. Agg D. Nor	neans sible plomerative ne algorithm does not require a dendrogram?
Pproach? A. K-m B. Divi C. Agg D. Nor 7. Which A. K-m B. Divi	neans sible plomerative ne algorithm does not require a dendrogram?
Pproach? A. K-m B. Divi C. Agg D. Non 7. Which A. K-m B. Divi C. Agg	neans sible plomerative ne algorithm does not require a dendrogram? neans sible sible sible sible
Pproach? A. K-m B. Divi C. Agg D. Nor 7. Which A. K-m B. Divi C. Agg D. All 8. Which	neans sible plomerative ne algorithm does not require a dendrogram? neans sible plomerative
Pproach? A. K-m B. Divi C. Agg D. Nor 7. Which A. K-m B. Divi C. Agg D. All 8. Which Problem of	neans sible Illomerative ne algorithm does not require a dendrogram? neans sible Illomerative of the above of the following clustering algorithms suffers from the
Pproach? A. K-m B. Divi C. Agg D. Nor 7. Which A. K-m B. Divi C. Agg D. All All 8. Which Problem o	neans sible plomerative ne algorithm does not require a dendrogram? neans sible plomerative of the above of the following clustering algorithms suffers from the fonvergence at local optima?





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