Started	on Friday, March 2, 2018, 3:23 AM				
S	Finished				
Completed	on Friday, March 2, 2018, 3:37 AM				
Time ta	ken 13 mins 56 secs				
Gr	60.00 out of 60.00 (100 %)				
Question 1	What can the Elbow method be used for with the k-means algorithm?				
Complete	Select one:				
4.00 points out of 4.00	a. Finding the center of the clusters				
	b. Finding the best number of datapoints				
	c. Finding the best number of features				
	d. Finding the best number of clusters				
Question 2 Complete	How does the Adjusted Rand Index method measure the performance of clustering?				
4.00 points out of					
4.00	Select one:				
	 a. It takes values in the range [0, 1] and measures the agreement, normalizing against chance, between two sets of cluster labels. 				
	b. It takes values in the range [0, 1] and measures the similarity of a cluster.				
	c. It takes values in the range [-1, 1] and does not require ground truth labels.				
	d. It takes values in the range [0, 1] and measures the index of how data are assigned to a cluster.				
	 e. It takes values in the range [-1, 1] and measures the similarity between predicted and true labels. 				
Question 3	In the context of k-Means, how are cluster centers initialized?				
Complete	Select one:				
4.00 points out of	a. Randomly				
4.00					
	b. By picking a random feature and finding its mean				
	c. By taking the mean of each feature				
	d. By taking the mean of each datapoint				

Question 4 Which of the following hyperparameter may affect the performance of the KMeans estimator within the cluster module of the scikit learn library?											
4.00 points out of 4.00	Select one or more: a. inertia_										
	b. random_statec. max_iterd. labels_										
							✓ e. n_clusters				
							✓ f. n_init				
	Question 5 Complete	Is the KMeans algorithm guaranteed to converge?									
	4.00 points out of	Calagt and									
4.00	Select one: a. Yes										
	b. No										
Question 6	What are some advantages of DBSCAN algorithm over the k-means algorithm?										
Complete	What are some advantages of DBSCAN algorithm over the k-means algorithm? Select one or more:										
Complete 4.00 points out of	Select one or more:										
Complete 4.00 points out of	Select one or more: a. Clusters are not defined by connecting points.										
Complete 4.00 points out of	Select one or more: a. Clusters are not defined by connecting points. b. Hyperparameter tuning is not required to achieve optimal results.										
Complete 4.00 points out of 4.00 Question 7	Select one or more: a. Clusters are not defined by connecting points. b. Hyperparameter tuning is not required to achieve optimal results. c. It automatically determines the number of clusters within a data set. d. It is a density-based clustering algorithm, the discovered clusters can have										
Complete 4.00 points out of 4.00 Question 7 Complete	Select one or more: a. Clusters are not defined by connecting points. b. Hyperparameter tuning is not required to achieve optimal results. c. It automatically determines the number of clusters within a data set. d. It is a density-based clustering algorithm, the discovered clusters can have arbitrary shapes. Which class in sci-kit learn contains the implementation for DBSCAN?										
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Question 8 Complete	Which of the following hyperparameter(s) can be tuned to improve the performance of a DBSCAN model?						
4.00 points out of 4.00	Select one or more: a. matrices						
	✓ c. eps						
	d. random_states						
Question 9	Which of the options best describes the DBSCAN algorithm?						
Complete	This. S. a.e options soot assembles the BBook in algorithm.						
4.00 points out of	Select one:						
4.00	a. Regression algorithm						
	b. Density-based clustering algorithim						
	c. Spatial clustering algorithm						
	d. Classification algorithm						
	e. Feature selection algorithm						
Question 10	What does DBSCAN stand for?						
Complete							
4.00 points out of	Select one:						
4.00	a. Doing bad sparse coding of applications with noise						
	b. Density-based spatial clustering of applications with noise						
	c. Doubling brackets sparse coding applications noise						
Question 11	What kind of classification does the GMM provide?						
Complete	What kind of classification does the divini provide:						
4.00 points out of	Select one:						
4.00	a. Gaussian						
	b. Probabilistic						
	C. Mixture						
	d. Deterministic						

Question 12 Complete	Which of the following are hyperparameters of GaussianMixture estimator in the mixture module?													
4.00 points out of	HIO INEXCUI C INOCUIO:													
4.00	Select one or more:													
	✓ a. n_components													
	✓ b. covariance_type													
	 ✓ c. init_params ✓ d. tol e. n_iter_ ✓ f. n_init 													
							Question 13 Complete	What are the disadvantages of KMeans algorithm?						
							4.00 points out of	Select one or more:						
4.00	a. It cannot handle cluster models that are <i>circular</i> .													
	✓ b. It lacks probabilistic cluster assignment.													
	c. It is not flexible enough to account for oblong and circular clusters.													
	d. It lacks flexibility in cluster shape.													
Question 14	What algorithm is used to construct a Caussian Mixture Model?													
	What algorithm is used to construct a Gaussian Mixture Model?													
Complete														
Complete 4 00 points out of	Select one:													
4.00 points out of 4.00	Select one: a. M-step													
4.00 points out of														
4.00 points out of	a. M-step													
4.00 points out of	a. M-step b. E-step													
4.00 points out of 4.00	a. M-stepb. E-stepc. Expectation-Maximization													
4.00 points out of	a. M-stepb. E-stepc. Expectation-Maximization													
4.00 points out of 4.00	 a. M-step b. E-step c. Expectation-Maximization d. Expectation-Minimization Which of the following can be used to help determine the number of clusters to use for the Gaussian Mixture Model?													
4.00 points out of 4.00 Question 15 Complete	 a. M-step b. E-step c. Expectation-Maximization d. Expectation-Minimization Which of the following can be used to help determine the number of clusters to use for the Gaussian Mixture Model? Select one or more:													
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