COMP4432 Quiz 5

Please submit your answer before the deadline: 3:30pm, 12 April 2024

Hi, Fu Lai Korris. When you submit this form, the owner will see your name and email address.		
1. Suppose you have 500 features prepared for an unsupervised learning task. You are asked to to select 3 most important features to simplify the task, i.e., to keep 3 out of 500 available features. Which of the following is true? (Choose the best answer) □ ⊘ ⊘		
This is a dimensionality reduction problem that cannot be applied to unsupervised learning task.		
Features with higher variance should be choosen.		
Selecting only 3 features out of 500 features cannot be achieved by dimensionality reduction methods.		
None of the above	Features with higher variance should have higher priority to be kept in DR (feature selection) process.	
2. Which of the following is implicitly followed by dimensionality reduction approaches? (Choose the best answer) □ ♦		
Removing feature columns which have high variance in data.		
Removing sample rows which are repeated.		
Removing feature columns which have many repeated values.		
None of the above	With many repeated values, the chance that the corresponding feature has small variance is high for potential removal.	
3. Which of the following cannot be used to achieve dimensionality reduction? (Choose the best answer) (3 Points) 🚇 🖉		
PCA (Principal Component A	nalysis)	All of them works on the idea of
LSA (Latent Semantic Analysis)		subspace of DR.
Autoencoder		
None of the above		

Statistics for your reference:

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