







Marks: 1/1

## ← Go Back to Machine Learning 3 **:≡** Course Content Quiz 2 - Dimensionality reduction Type **Graded Quiz Attempts** 1/1 Questions 10 Time 15m **Due Date** Nov 17, 11:59 PM IST Your Marks 10/10 Instructions **Attempt History** Attempt #1 Marks: 10 Nov 05, 2:13 PM Q No: 1 Correct Answer Marks: 1/1 In PCA, the number of components is \_\_\_\_\_ to the number of independent variables. Less than or equal You Selected Greater than Less than Greater than or equal to Q No: 2 Correct Answer

Whic	ch of the following statements are correct	
(i) L[	DA specifically tries to model the difference between the	
	classes of the data.	
(ii) C	On the other hand, the PCA does not take any class	
	difference into account.	
	Both (i) and (ii) are correct	You Selected
0	Only (i) is correct	
0	Only (ii) is correct	
0	Both (i) and (ii) are incorrect	
Q No	o: 3 Correct Answer	
	is known to have a practical use as a binary as well as multiclass classifier.	Marks: 1/1
	is known to have a practical use as a binary as well as multiclass classifier.	
	LDA	
	LDA PCA	
Q No	PCA  Both PCA and LDA  None	You Selected
Q No	PCA  Both PCA and LDA  None	You Selected  Marks: 1/1
Q No	PCA  Both PCA and LDA  None  Correct Answer	You Selected  Marks: 1/1
Q No	PCA  Both PCA and LDA  None  Correct Answer	You Selected  Marks: 1/1

True		You Selected
O False		
O No ans	swer text provided.	
O No ans	swer text provided.	
Q No: 5	Correct Answer	
is des	cribed as a dimensionality reduction technique.	Marks: 1/1
Both P	CA and LDA	You Selected
O PCA		
O LDA		
OLDC		
Q No: 6	Correct Answer	
Which of the	e following statement is TRUE about Linear Discriminative Analysis?	Marks: 1/1
	pjective is to maximize the distance between the target classes and ze the distance within classes	You Selected
O minimi	ze both distance between class and distance within class	
O maxim	ize both distance between class and distance within class	
	ojective is to minimize the distance between the target classes and ma ce within classes	aximize the
Q No: 7	Correct Answer	
Which of the	e following are the different criterias to select the best principal compo	Marks: 1/1 onents?

Both Scree	Plot and Kaiser Criterion	You Selected
Scree Plot		
C Kaiser Crite	rion	
None of the	given options	
Q No: 8	Correct Answer	
Which of the follo	wing statements are TRUE about PCA?	Marks: 1/1
3. PCA helps in	only the significant features from all the features in removing redundant feature dimensions and selecused for prediction	ct the unique features
A and C		You Selected
O A and B		
A, B and C		
O B and C		
Q No: 9 When to use PCA	Correct Answer	Marks: 1/1
You want to	find latent features and reduce dimensionality	You Selected
When my da	ata is small and with a few features	
When I have	e a overfit case	
O Everytime b	pefore uses a Machine Learning algorithm	

	Marks:
rincipal components are always to each other.	
<ul><li>Orthogonal</li></ul>	You Selected
O Parallel	
O Horizontal	
<ul><li>Horizontal</li><li>None of the above</li></ul>	

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