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← 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 03, 1:20 PM

Q No: 1   (Correct Answer)

                                                                      Marks: 1/1

PCA can be used for projecting and visualizing data in lower dimensions.

○ True   (You Selected)

○ False

○ No answer text provided.

○ No answer text provided.

Q No: 2   (Correct Answer)

Marks: 1/1

Which of the following is a step of Data Pre Processing, which is applied to independent variables, or features of data.

● Standardization   (You Selected)

○ Gradient descent

○ Error finding

○ None of these

Q No: 3   (Correct Answer)

Marks: 1/1

Why you have to drop unimportant features?

● Using the most important features will give you better efficiency predicting   (You Selected)
  your target

○ Standardize the data

○ To trains the model faster

○ To Find the correct clusters

Q No: 4   (Correct Answer)

Marks: 1/1

PCA takes care of multi co-linearity in data.

| ⦿ True | You Selected |

| ○ False |

| ○ No answer text provided. |

| ○ No answer text provided. |

Q No: 5   (Correct Answer)

Marks: 1/1

_____ is described as a dimensionality reduction technique.

| ⦿ Both PCA and LDA | You Selected |

| ○ PCA |

| ○ LDA |

| ○ LDC |

Q No: 6   (Correct Answer)

Marks: 1/1

Which of the following are the different criterias to select the best principal components?

⦿ Both Scree Plot and Kaiser Criterion	You Selected

○ Scree Plot

○ Kaiser Criterion

○ None of the given options

Q No: 7   (Correct Answer)

Marks: 1/1

Which of the following statements are correct

(i) LDA specifically tries to model the difference between the

classes of the data.

(ii) On the other hand, the PCA does not take any class

difference into account.

⦿ Both (i) and (ii) are correct	You Selected

○ Only (i) is correct

○ Only (ii) is correct

○ Both (i) and (ii) are incorrect

Q No: 8   (Correct Answer)

Marks: 1/1

The elbow point in the scree plot corresponds to the optimal number of components

⊙ True   You Selected

○ False

○ No answer text provided.

○ No answer text provided.

Q No: 9   Correct Answer

Marks: 1/1

A characteristic equation is defined as:

⊙ $|A - \lambda I| = 0$ You Selected

○ $|A| = \lambda I$

○ $|A - I| = \lambda$

○ None of the given options

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‹ Previous   Next ›

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