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Dashboard / Introduction to Machine Learning Algorithms and their Implementation in Python - Challenges / Week 8 MCQ Challenge: Principle Component Analysis

# Week 8 MCQ Challenge: Principle Component Analysis

<u>Rules Grading policy Your Grades</u>

#### # Attempt 1

You scored **4/4** in this challenge. Please see the below table for details

1		4/4

#### #Question1

In principal component analysis, the principal components obtained captures the direction of maximum variance

#### **Correct Answers**

✓True

**Your Answers** 

✓True

#### #Question2

The mean calculated using  $\bar{x} = \frac{1}{N} \sum_{i=1}^{N} x_i$  for mean centering the data is

## **Correct Answers**

✓Sample mean

**Your Answers** 

✓Sample mean

# #Question3

Covariance matrix for the mean centered x is obtained as-

# **Correct Answers**

 $\checkmark$ Sx = 1/N  $\sum$ N/ i=1 (xi -  $\overline{x}$ )(xi -  $\overline{x}$ )T

Your Answers

 $\checkmark$ SX = 1/N  $\sum$ N/ i=1 (xi -  $\overline{x}$ )(xi -  $\overline{x}$ )T

# #Question4

Eigen vectors Xi with Eigen values λi of matrix Sx are the vectors that lies in the null space of-

# **Correct Answers**

**✓**Sx - λi

Your Answers

**✓**Sx - λi



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#### **Your Status**

You have scored 26567 points. Keep gc

