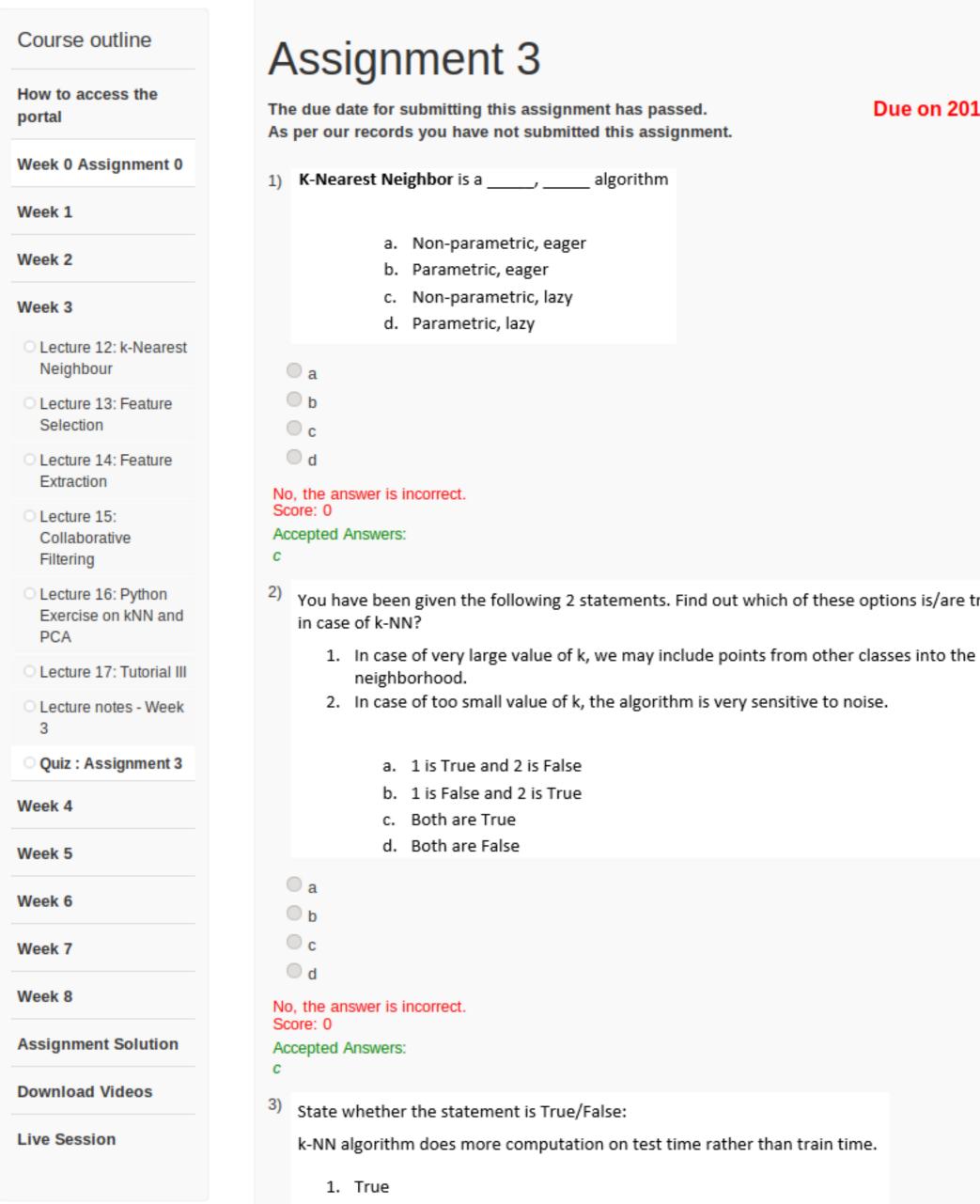
Due on 2019-08-21, 23:59 IST.

1 point

## Unit 5 - Week 3



 K-Nearest Neighbor is a \_\_\_\_\_, \_\_\_\_ algorithm 1 point Non-parametric, eager b. Parametric, eager c. Non-parametric, lazy d. Parametric, lazy

No, the answer is incorrect. You have been given the following 2 statements. Find out which of these options is/are true

 1 is True and 2 is False b. 1 is False and 2 is True c. Both are True d. Both are False

State whether the statement is True/False:

 $\circ$  a b No, the answer is incorrect. Score: 0 Accepted Answers: Suppose you are given the following images (1 represents the left image, 2 represents the middle and 3 represents the right). Now your task is to find out the value of k in k-NN in each of the images shown below. Here k1 is for 1st, k2 is for 2nd and k3 is for 3rd figure.

False

 $\bigcirc$  a

b

○ c

d

 $\bigcirc$  a

( b

( c

 $\bigcirc$  a

 $\bigcirc$  b

○ c

d

Score: 0

Accepted Answers:

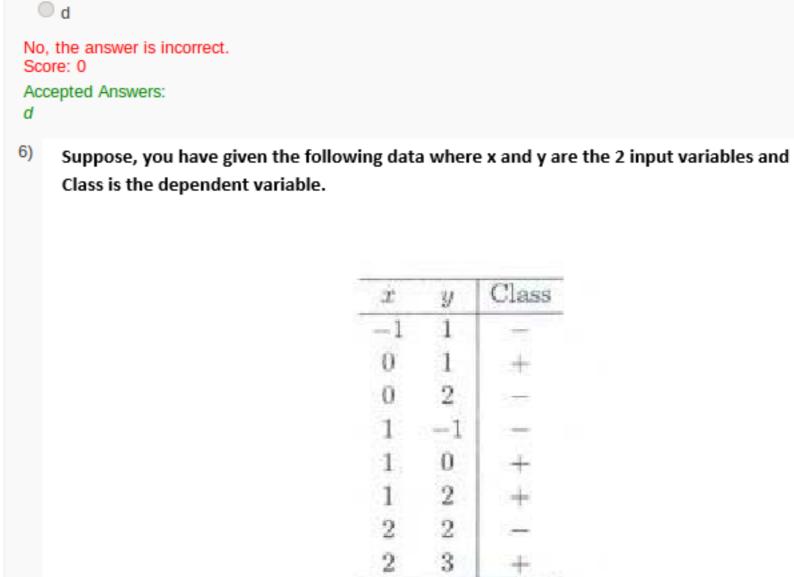
k=2, libFRSD:0474sec/10th samples

a. k1 > k2 > k3 b. k1 < k2> k3 c. k1 < k2 < k3</p> d. None of these No, the answer is incorrect. Score: 0 Accepted Answers:

File Edit View Insert Tools Desktop Window Help File Edit View Insert Tools Desktop Window Help File Edit View Insert Tools Desktop Window Help

k=19, IbPRSD 0.97661sec/100k samples

k-50, IbPRSD: 2.0948sec/198k samples



Below is a scatter plot which shows the above data in 2D space.

5) Which of the following necessitates feature reduction in machine learning?

a. Irrelevant and redundant features

c. Limited computational resources.

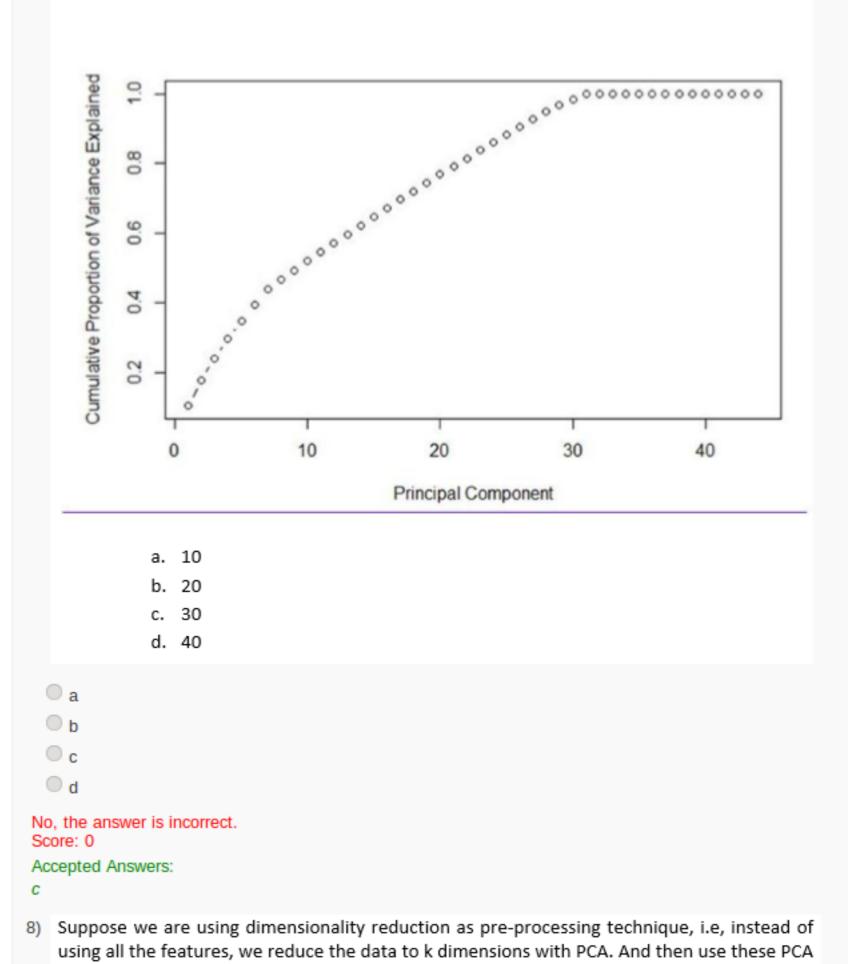
b. Limited training data

d. All of the above

distance in 3-NN. In which class this data point belong to? a. + Class b. - Class c. Can't Say d. None of these No, the answer is incorrect.

7) What are the optimum number of principal components in the below figure?

Suppose, you want to predict the class of new data point x=1 and y=1 using Eucledian



( a ( b No, the answer is incorrect. Score: 0 Accepted Answers: In collaborative filtering based recommendation, the items are recommended based on : a. Similar users

projections as our features. Which of the following statements is correct?

Choose which of the options is correct?

b. Similar items

 $\circ$  a

( b

 $\circ$  a

b

○ c

Score: 0

No, the answer is incorrect.

Accepted Answers:

c. Both of the above

d. None of the above

a. Higher value of 'k' means more regularization

b. Higher value of 'k' means less regularization

O a
No, the answer is incorrect. Score: 0
Accepted Answers:
10) The major limitation of collaborative filtering is:

a. Cold start

b. Overspecialization

c. None of the above