

Quiz 3: Data science

Total Marks: 8

2018-05-07

Name: -----

Registration #:

----- Section: -----

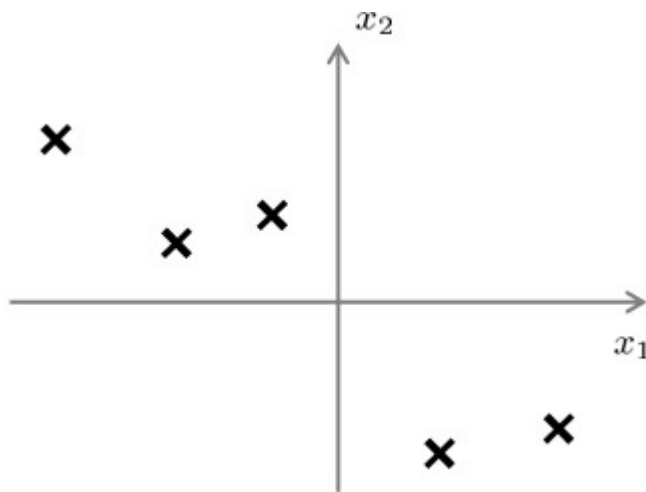
Q1 [True or False] Dimensionality reduction algorithms are one of the possible ways to reduce the computation time required to train a model.

a) True

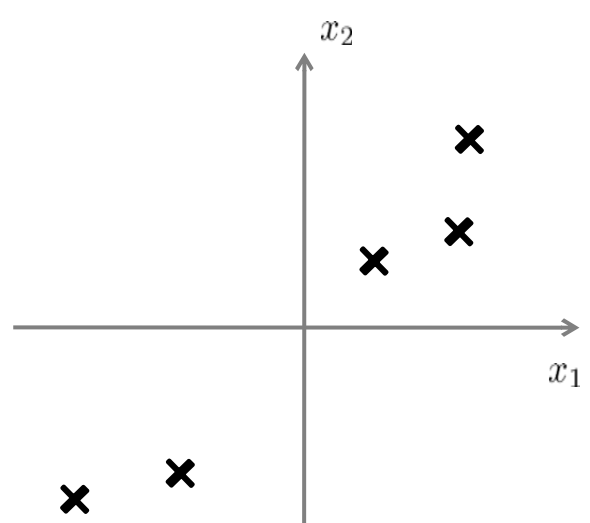
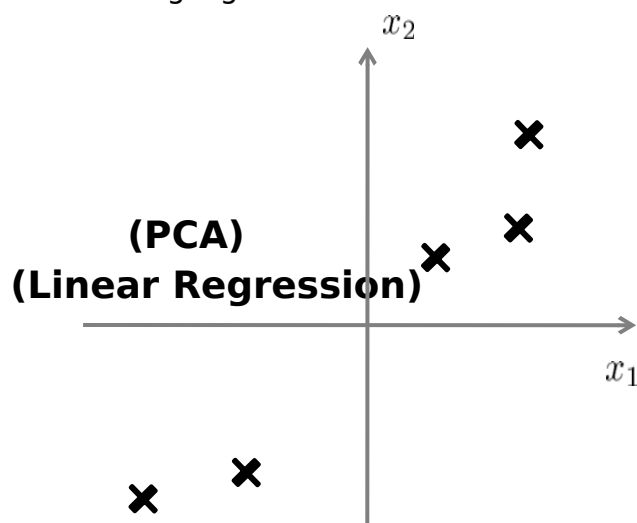
b) False

Q2 [2 + 2 marks]

A) Considering the dataset given below in the figure, find all principal components. You don't need any calculation, just draw and show in which direction of the vectors?



B) Differentiate between PCA and Linear Regression. Explain your answer using Figures.



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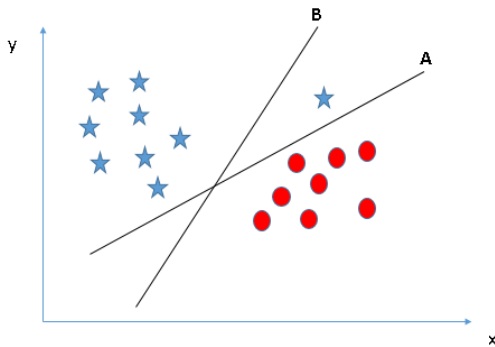
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Q3. [2 marks] SVM: Which of the decision boundary will be selected in which scenario? You can discuss the effect of parameter C.



Q4. [1 marks] Discuss SVM and Logistic Regression with respect to decision boundary.

