Answers to Review Quiz 6

Question 1: Which of the following regarding Support Vector Machine (SVM) and Logistic Regression are true?

- 1. The difference between Soft margin and Hard margin is that hard margin allows some mis-classification on some data points. soft margin
- 2. SVM finds its optimal model parameters by maximizing the margin between the decision boundary and the observed data.
- 3. Logistic Regression finds its optimal model parameters by the minimizing the sum of distance among the obseved data. maximizing

A. Only 1

B. Only 2

C. Only 3

D. 1 and 2

E. 2 and 3

Question 2: What are support vectors?

Answer: Support vectors are data points that near to the hyperplane. They lie on the boundary of the margins.

Question 3: What is the margin in a SVM?

Answer: Margin in a SVM is the distance between nearest data points that from each class.



The winner is ZiXiao Zhang

High five from your instructor
Dr. Pang to ZiXiao Zhang for a
great answers in Review Quiz
#6 on 4/21/2021