

CS381 Data Analytic Regression Practice Quizz

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

1. SVM finds its optimal model parameters by maximizing the Likelihood functions (i.e. the probability of the training data)
2. Logistic Regression finds its optimal model parameters by using the maximizing the margin between the predictions and the observed data.
3. The difference between Soft margin and Hard margin is that soft margin allows some mis-classification some data points.

- A. Only 1
- B. Only 2
- C. Only 3
- D. 1 and 2
- E. 2 and 3

Answers: C

Question 2: What are support vectors?

Answer: The support vectors are the vectors of the data points that are closest to the hyperplane. They define the hyperplane.

Question 3: What is the margin in a SVM?

Answer: Margin is maximum width of the band that can be drawn separating the support vectors of the two classes.