PractiseQuestion1.md 11/9/2019

CS381 Data Analytic Regression Practice Quizz

Question 1: Which of the following statements related to Linear and Logistic regression are true?

- 1. To fit a model, we try to find what are the regression coefficient by maximizing the corresponding cost function.
- 2. The mean square error function can be used as the cost function for Linear regression.
 - 3. Odd is the probability that a certain event happens
- A. Only 1
- B. Ony 2
- C. 1 and 2
- D. 2 and 3
- E. All of the above

Answer: B (1 is wrong because we want to minimize the cost function, 3 is wrong because Odd is the ratio of the positive probability over negative probability

Question 2: Which of the following statements related to Linear and Logistic regression are true?

- 1. Gradient descent is a method for solving optimization problems.
- 2. Gradient descent will always find the global minimum.
- 3. To fit a logistic model, one can use gradient descent method to find the best fitted parameters $\,$
- A. Only 1
- B. Only 2
- C. 1 and 2
- D. 1 and 3
- E. All of the above

Answer: D (2 is wrong because Gradient descent may find only local minium)

Question 3: Fill in the blank

The range of a Sigmoid function is between _____ and _____.

Sigmoid function range is between 0 to 1 because it is used for probability which can only between 0 and 1