Machine Learning (CS1741) Quiz-I

Total Marks: 5   Each question carries equal marks (1).
Time: 10 Mints

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Points: **5/5**

1. Output of a linear regression model is continuous, whereas output of classification is discrete.
   (1/1 Point)

   ◉ True ✓

   ○ False

2. Suppose you are training a machine learning model for binary classification. What type of error function which is suitable to solve the problem.
   (1/1 Point)

   Given $(x_1, t_1), (x_2, t_2) \dots (x_N, t_N),$ *best fitting data to* $y(X, W) = W^T X + w_0$ *by least squares.*

   ○ $\sum_{i=1}^{N} \; [t_i - y\,(x_i, W)]$

   ○ $\sum_{i=1}^{N} \; |t_i - y\,(x_i, W)|$

   ◉ $\sum_{i=1}^{N} \; [t_i - y\,(x_i, W)]^{\,2}$ ✓

   ○ *None of these*

3. If the training examples are linearly separable, how many decision boundaries can separate positive from negative data points?
(1/1 Point)

○ One

○ Two

◉ Infinite ✓

○ None of these

4. The perceptron learning suffers from classifying non-linear data sets and it can't handle _____.
(1/1 Point)

○ Overfitting

○ Underfitting

◉ Noise ✓

○ None of these

5. Which of the following sentence is FALSE regarding regression?
(1/1 Point)

○ It relates inputs to outputs

○ It is used for prediction

○ It may be used for interpretation

◉ It discovers causal relationships ✓

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