Quiz 2

Total points   100/100

The respondent's email (**irfan.ahmed@stonybrook.edu**) was recorded on submission of this form.

✓ Consider a classification problem, when we use more features for the   10/10
data points, overfitting is more likely

- ◉ True   ✓
- ○ False

✓ Suppose hypothesis class A is simpler than hypothesis class B, which   20/20
of the following statement is true?

- ○ A has higher bias than B
- ○ A has lower variance than B
- ◉ Both of the above statements are True   ✓
- ○ Both of the above statements are False

✓ For classification problem, Accuracy is always a good performance   10/10
metric

- ○ True
- ◉ False   ✓

✓ Average Precision is the Area Under the Precision Recall Curve 10/10

(●) True ✓

( ) False

✓ In each fold of K-Fold cross validation, training and validation data are 10/10
not disjoint

( ) True

(●) False ✓

✓ L2 regularization often leads to a sparse solution 10/10

( ) True

(●) False ✓

✓ The objective of LASSO regression is a convex optimization problem 10/10

(●) True ✓

( ) False

✓ The midterm next week is an open book exam   10/10

⦿ True   ✓

◯ False

✓ The objective functions of Ridge regression and LASSO regression are 10/10
   the same

◯ True

⦿ False   ✓

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