

## Quiz 4

Total points 85/100

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

✓ Entropy value can be negative

15/15

☐ True

☒ False



✗ The nearest neighbor classifier has high variance

0/15

☒ True

☐ False



Correct answer

☒ False

✓ Bagging is a method to reduce the bias of a learning algorithm

15/15

☐ True

☒ False



✓ A bootstrap sample is a sample of the original training dataset obtained by sampling without replacement

15/15

☐ True

☒ False



✓ A decision tree is a linear classifier of which the decision boundary is a hyperplane

15/15

☐ True

☒ False



✓ In a random forest, the trees can be executed independently

10/10

☒ True

☐ False



✓ Information gain is always non-negative

15/15

☒ True

☐ False



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