Exploring Ensemble Methods

10 questions

1 point

1. **Are you using GraphLab Create? Please make sure that**

1. You are using version 1.8.3 of GraphLab Create. Verify the version of GraphLab Create by running

```
graphlab.version
```

inside the notebook. If your GraphLab version is incorrect, see this post to install version 1.8.3. **This assignment is not guaranteed to work with other versions of GraphLab Create.**

2. You are using the IPython notebook named module-8-boosting-assignment-1-blank.ipynb obtained from the associated reading.

This question is ungraded. Check one of the three options to confirm.

- (●) I confirm that I am using the right version of GraphLab Create and the right IPython notebook.
- ( ) I am using scikit-learn.
- ( ) I am using tools other than GraphLab or scikit-learn, and I understand that I may not be able to complete some of the quiz questions.

1 point

2. What percentage of the predictions on sample_validation_data did model_5 get correct?

- ( ) 25%
- ( ) 50%
- (●) 75%
- ( ) 100%

1 point

3. According to **model_5**, which loan is the least likely to be a safe loan?

- ( ) First
- ( ) Second
- (●) Third
- ( ) Fourth

1 point

4. What is the number of false positives on the validation data?

1 point

5. Using the same costs of the false positives and false negatives, what is the cost of the mistakes made by the boosted tree model (model_5) as evaluated on the validation_set?

1 point

6. What grades are the top 5 loans?

- (●) A
- ( ) B
- ( ) C
- ( ) D
- ( ) E

1 point

7. Which model has the best accuracy on the validation_data?

- ( ) model_10
- ( ) model_50
- (●) model_100
- ( ) model_200
- ( ) model_500

1 point

8. Is it always true that the model with the most trees will perform best on the test/validation set?

- ( ) Yes, a model with more trees will ALWAYS perform better on the test/validation set.
- (●) No, a model with more trees does not always perform better on the test/validation set.

1 point

9. Does the training error reduce as the number of trees increases?

- (●) Yes
- ( ) No

1 point

10. Is it always true that the test/validation error will reduce as the number of trees increases?

- ( ) Yes, it is ALWAYS true that the test/validation error will reduce as the number of trees increases.
- (●) No, the test/validation error will not necessarily always reduce as the number of trees increases.