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?

1618

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?

46990000

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?

- [x] 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
- [x] No

1 point

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

- [x] 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.

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