



Implementing binary decision trees

8 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-5-decision-tree-assignment-2-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 SFrame and NumPy only.
- ☐ I am using other tools, and I understand that I may not be able to complete some of the quiz questions.

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2.

What was the feature that my_decision_tree first split on while making the prediction for test_data[0]?

- ☐ emp_length.4 years
 - ☐ grade.A
 - ☐ term. 36 months
 - ☐ home_ownership.MORTGAGE
-

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3.

What was the first feature that lead to a right split of test_data[0]?

- ☐ emp_length.< 1 year
 - ☐ emp_length.10+ years
 - ☐ grade.B
 - ☐ grade.D
-

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4.

What was the last feature split on before reaching a leaf node for test_data[0]?

- ☐ grade.D
- ☐ grade.B

☐ term. 36 months

☐ grade.A

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5.

Rounded to 2nd decimal point (e.g. 0.76), what is the classification error of my_decision_tree on the test_data?

0.38

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6.

What is the feature that is used for the split at the root node?

☐ grade.A

☐ term. 36 months

☐ term. 60 months

☐ home_ownership.OWN

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7.

What is the path of the first 3 feature splits considered along the left-most branch of my_decision_tree?

☐ term. 36 months, grade.A, grade.B

☐ term. 36 months, grade.A, emp_length.4 years

- ☐ term. 36 months, grade.A, no third feature because second split resulted in leaf
-

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8.

What is the path of the first 3 feature splits considered along the right-most branch of my_decision_tree?

- ☐ term. 36 months, grade.D, grade.B
- ☐ term. 36 months, grade.D, home_ownership.OWN
- ☐ term. 36 months, grade.D, no third feature because second split resulted in leaf
-

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