

## Implementing binary decision trees



7 questions

1 point

1. 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

1 point

2. 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

1 point

3. 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

1 point

4. Rounded to 2nd decimal point (e.g. 0.76), what is the classification error of my\_decision\_tree on the test\_data?

0.38

1 point

5. 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

1 point

6. 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

1 point

7. 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

I, **Vamsi Vegunta**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

[Learn more about Coursera's Honor Code](#)

Submit Quiz

