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
- [x] term. 36 months
- [ ] home_ownership.MORTGAGE

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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
- [x] grade.D

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1 point

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

- [x] grade.D
- [ ] grade.B
- [ ] term. 36 months
- [ ] grade.A

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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

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1 point

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

- [ ] grade.A
- [x] term. 36 months
- [ ] term. 60 months
- [ ] home_ownership.OWN

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1 point

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

- [x] 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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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
- [x] term. 36 months, grade.D, no third feature because second split resulted in leaf