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HW3

1.

            precision recall  f1-score support

         0 0.50      1.00 0.67     3

         1 1.00      0.67 0.80     9

avg / total       0.88 0.75  0.77 12

2.

|  |  |
| --- | --- |
| 24 | Win |
| 25 | Lose |
| 26 | Win |
| 27 | Lose |
| 28 | Win |
| 29 | Lose |
| 30 | Lose |
| 31 | Win |
| 32 | Win |
| 33 | Lose |
| 34 | Win |
| 35 | Lose |

3.

The naïve bayes model was more accurate than either the ID3 or C4.5 decision tree methods, as evidenced by its higher average precision. Owing to this is it’s ability to produce a continuous value for the target variables. ID3 performs the worst. This is because it selects the feature with the highest information gain at each level, instead of exploring deeper levels before making a decision.

https://github.com/bmsr56/cs5402/tree/master/hw3