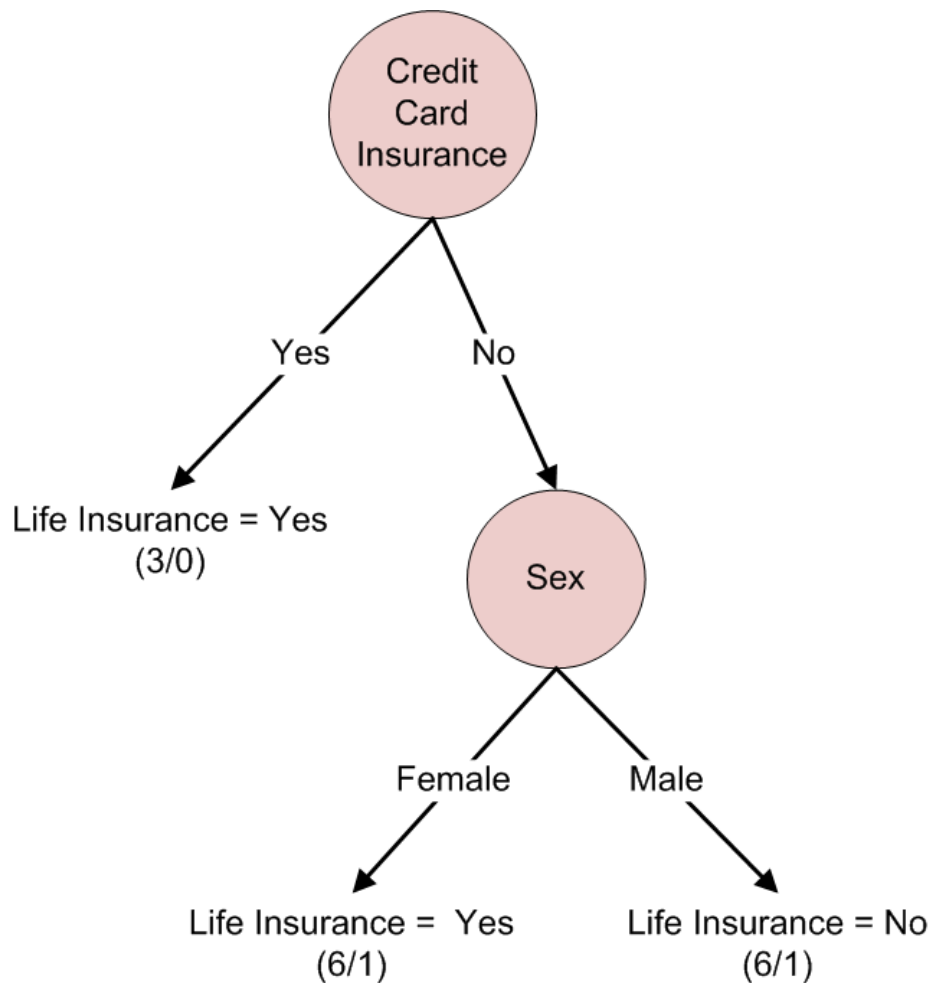


ITEC 4397
Fall 2011
In-Class Assignment 02

Work with one or two classmates to answer the following questions.

1. A decision tree built using the algorithm described in Section 3.1 allows us to choose a categorical attribute for data division only once. However, the same numeric attribute may appear several times in a decision tree. Provide an example of how this is true using the credit card promotion data.
2. Use the credit card promotion data to construct a confusion matrix for the decision tree shown in Figure 1 (same as Figure 3.5 in the book).

Figure 1 A Two-Node Decision Tree for the Credit Card Promotion Data



3. Write the production rules for the decision tree shown in Figure 1.
4. Can you simplify any of the rules you just wrote without compromising rule accuracy?