

# Homework 7

CS 5233 – Fall 2007  
Tom Bylander, Instructor

assigned October 29, 2007  
due November 5, 2007

1. (100 pts.) Consider the examples in Exercise 20.15. Use examples 3 through 12 as the training data, and use examples 1, 2, 13, and 14 as the test data. Do the following exercises.
  - (a) (50 pts.) Using information gain, find a decision tree for the training data, and determine its accuracy on the test data.
  - (b) (50 pts.) Use the nearest neighbor algorithm to classify the test data based on the training data.