CMPSC497 Fall 2018 Homework 2.

Assigned: Friday, August 31, 2018

Due: Friday, September 7, 2018 (by midnight, submit online via Canvas)

Maximum: 100 point

Note: This assignment is to be done by an individual student, no team work allowed.

- 1. (40%) Discuss whether or not each of the following activities is a data mining task.
 - a) Extracting the frequencies of a microware wave.
 - b) Divide the customers of a company according to their profitability.
 - c) Monitoring seismic waves for earthquake activities.
 - d) Predict the future stock price of a company according to their historical records.
 - e) Compute the total sales of a company in the last year.
- 2. (30%) Data mining tasks are generally divided into two major categories, i.e., predictive and descriptive tasks. Are the following tasks predictive or descriptive? Please explain.
 - a) Regression.
 - b) Association Analysis.
 - c) Clustering.
- 3. (30%) Please define and give one example of its applications for the following data mining tasks.
 - a) Classification.
 - b) Regression.
 - c) Clustering.