CIS 635 Data Mining

Homework 1 Answer Sheet

Write or paste in the answers for the following questions from the homework1

### Part 1

1. attrs: Income Interest Credit History Education

2. clstrs: Food Preparation Storage Cleaning Dining

Part 2: paste in the command or results (as indicated)

2. a) iq = dnorm(1:100, mean = 15, sd = 2) (cmd)

2. c) mean is 5.01 and std dev is 0.03638284 (results)

2. e) iq[11:20] (cmd)

3. a) tmp = matrix(data = c(-9, 0, 1, 5, 3, -2), nrow = 2, ncol = 3) (cmd)

3. d) sum(x[,2][5:15]) (cmd)

3. f) # using idx

idx = x[,4] < 700

mean(x[idx, 3]) (cmd)

# using a for loop and if statement

avgIncBelow700 = c()

for(index in 1:length(x[,4])) {

ficoItem = x[,4][index]

avgIncItem = x[,3][index]

if (ficoItem < 700) {

avgIncBelow700 = append(avgIncBelow700, avgIncItem)

}

}

mean(avgIncBelow700)

4. a) maxOfCol2 = function( table ) {

# returns an vector that contains the maximum value of column 2

return( c( max(table[,2] ) ) )

}