Anay Gupta
CSE 494: AI for Cyber Security
Shakarian - Friday 1 pm
February 15th, 2019

CSE 494 Lab 3 Exercises

1. Using a 5-fold cross validation on the dataset using a Decision Tree Classifier with the only parameter criterion set to entropy, the following measurements are obtained on the negative class (label = 0):
    Precision = 0.83182
    Recall = 0.82149
    F1 Measure = 0.82626

2. Using a 70-30 split validation on the dataset using a Random Forests classifier with parameter criterion set to entropy and number of estimators set to 100, the following measurements are obtained on the positive class (label = 1):
    Precision = 0.33333
    Recall = 0.04347
    F1 Measure = 0.07692

3. Using a 5-fold cross validation on the dataset using a Logistic Regression Classifier with C set to 1, the following measurements are obtained on the positive class (label = 1):
    Precision = 0.20000
    Recall = 0.00465
    F1 Measure = 0.00909