CSC242 Project 4 Report

Instructions to run the project:

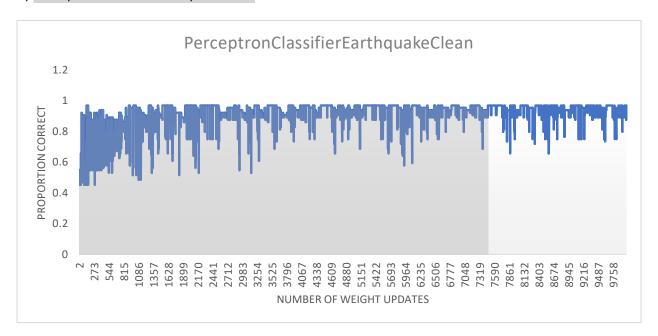
Open the project folder in the terminal and then use the following command to compile it: javac src/*/*/*.java

After it as compiled used this command to run the desired java file. I have implemented the Classifiers with display along with this report to give the user a visual representation of the output.

java -cp ./src learn.lc.examples.PerceptronClassifierWithDisplay src/learn/lc/examples/earthquake-noisy.data.txt 700 0.95

You can change the file name, number of weight updates, and alpha accordingly in the command.

1) PerceptronClassifierEarthquakeClean

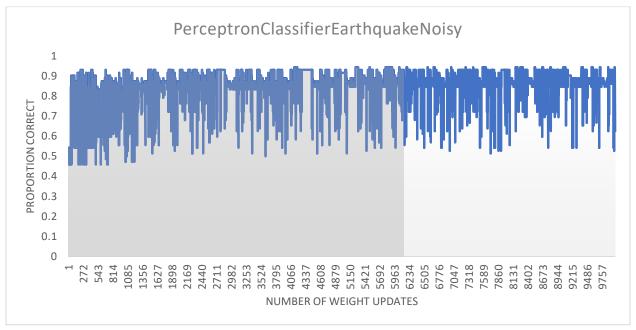


Classifier used: Perceptron Classifer Test Data used: Earthquake-Clean

Number of Steps: 10,000

alpha: 0.95

2) PerceptronClassifierEarthquakeNoisy

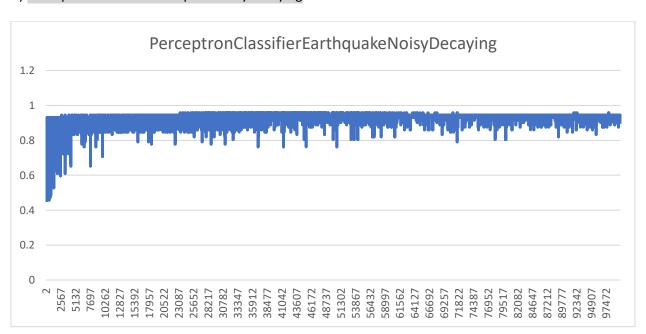


Classifier used: Perceptron Classifer Test Data used: Earthquake-Noisy

Number of Steps: 10,000

alpha: 0.95

3) PerceptronClassifierEarthquakeNoisyDecaying

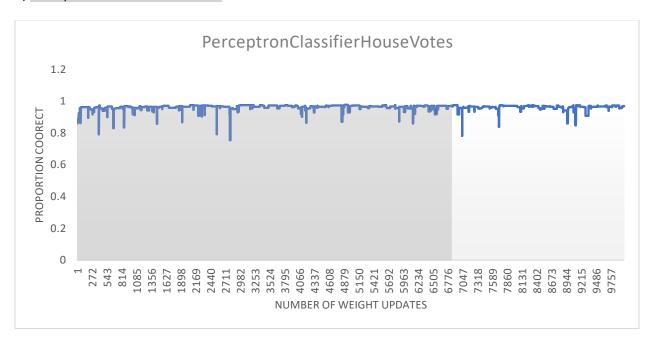


Classifier used: Perceptron Classifer Test Data used: Earthquake-Noisy

Number of Steps: 10,000

alpha: 0

4) PerceptronClassifierHouseVotes

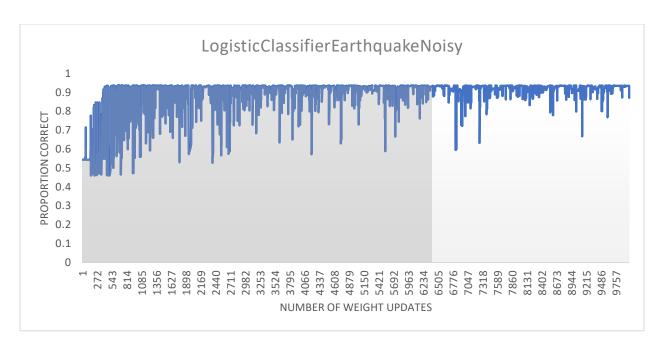


Classifier used: Perceptron Classifer Test Data used: House-votes-84

Number of Steps: 10,000

alpha: 0.95

5) LogisticClassifierEarthquakeNoisy

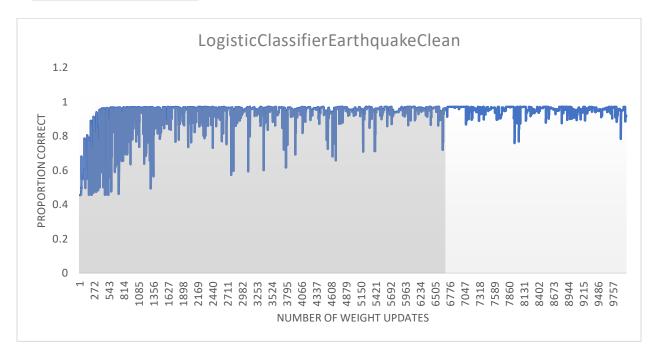


Classifier used: Logistic Classifer Test Data used: Earthquake-Noisy

Number of Steps: 10,000

alpha: 0.95

6) LogisticClassifierEarthquakeClean



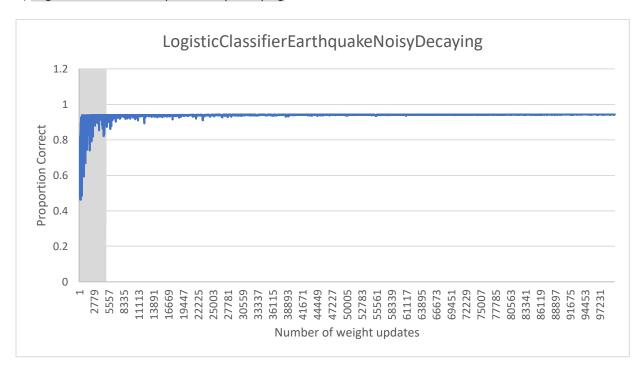
Classifier used: Logistic Classifer

Test Data used: Earthquake-Clean

Number of Steps: 10,000

alpha: 0.95

7) LogisticClassifierEarthquakeNoisyDecaying

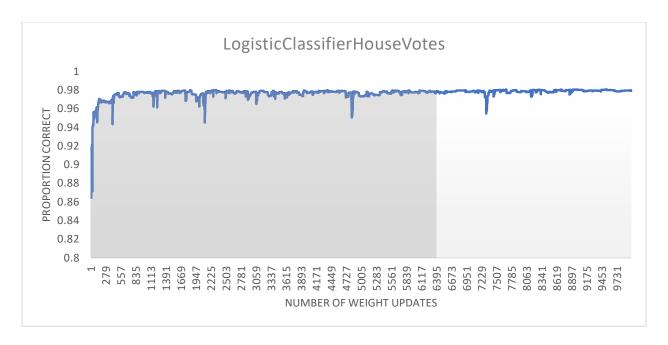


Classifier used: Logistic Classifer Test Data used: Earthquake-Noisy

Number of Steps: 10,000

alpha: 0

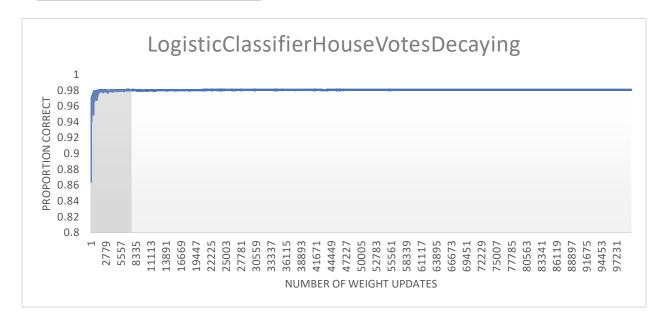
8) LogisticClassifierHouseVotes



Classifier used: Logistic Classifer Test Data used: House-votes-84 Number of Steps: 10,000

alpha: 0.95

9) LogisticClassifierHouseVotesDecaying

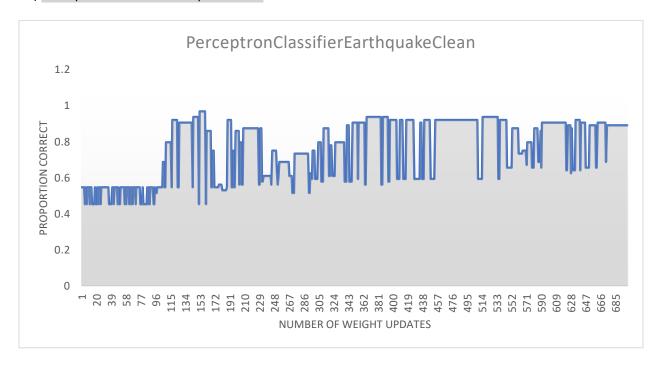


Classifier used: Logistic Classifer

Test Data used: House-votes-84 Number of Steps: 10,000

alpha: 0

10) PerceptronClassifierEarthquakeClean

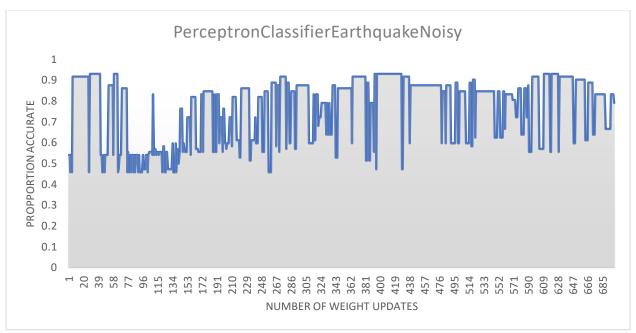


Classifier used: Perceptron Classifer Test Data used: Earthquake-Clean

Number of Steps: 700

alpha: 0.95

11) PerceptronClassifierEarthquakeNoisy

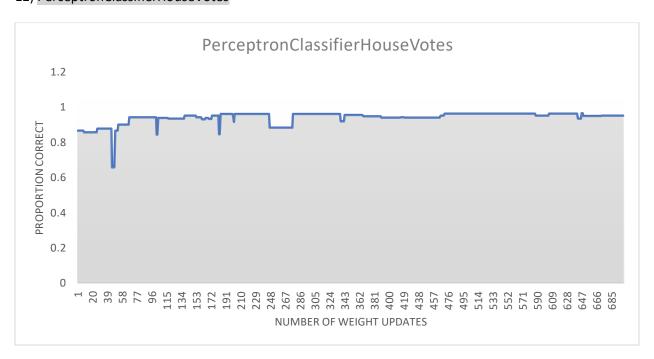


Classifier used: Perceptron Classifer Test Data used: Earthquake-Noisy

Number of Steps: 700

alpha: 0.95

12) PerceptronClassifierHouseVotes



Classifier used: Perceptron Classifer

Test Data used: House-votes-84

Number of Steps: 700

alpha: 0.95