

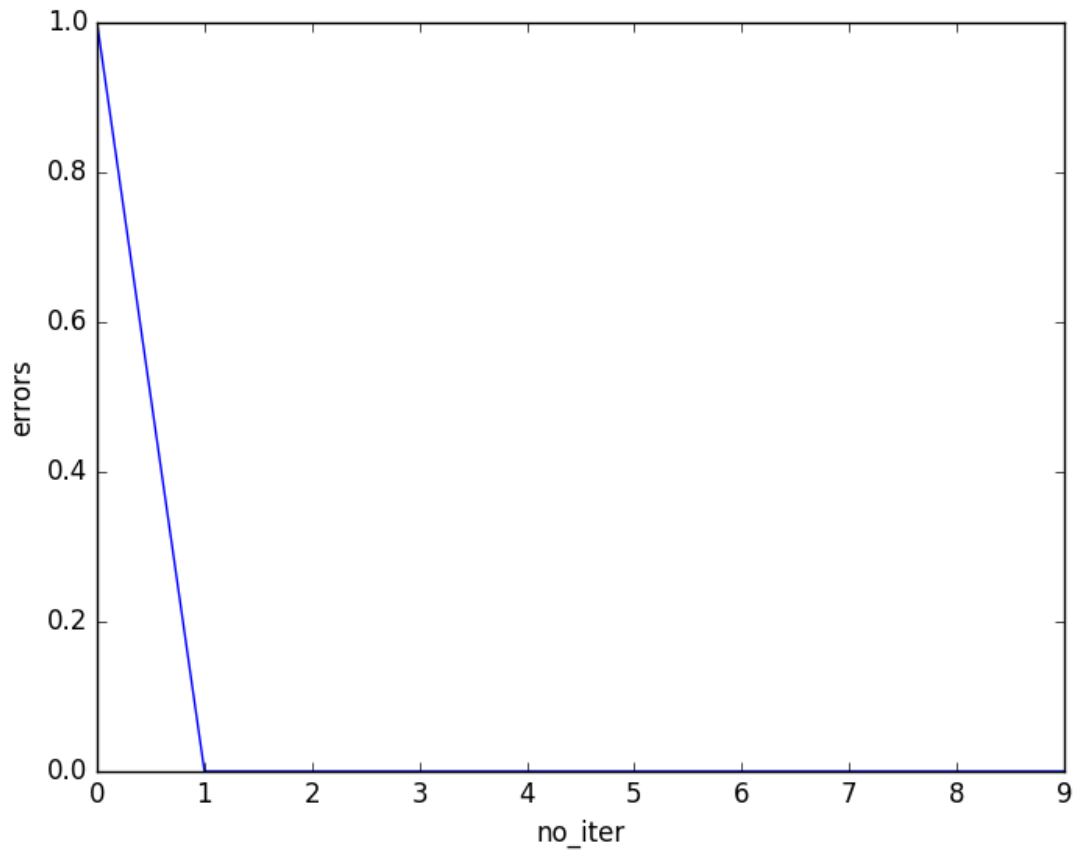
Lovemore Tenha

ML Project1 Report

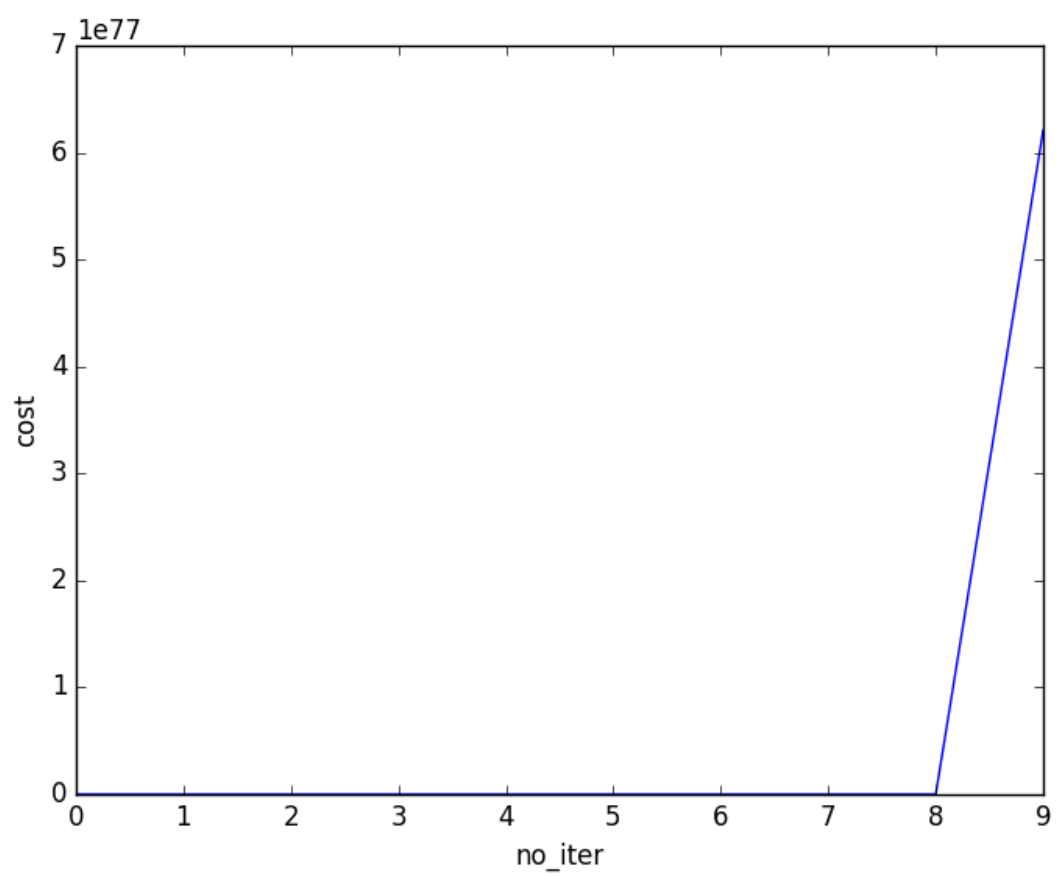
This report evaluates the performance of the three binary classifiers; perceptron, Adaline and stochastic gradient descent; and a multi-class classifier. The datasets used to evaluate the classifiers are Iris and Wine datasets. The performance of the classifiers was evaluated for each of the two datasets. The table below shows the results.

Classifier	% Accuracy/Iris.data	% Accuracy/Wine.data
Perceptron	100	97.2
Adaline	30	0
SGD	100	100
Multiclass	83	0

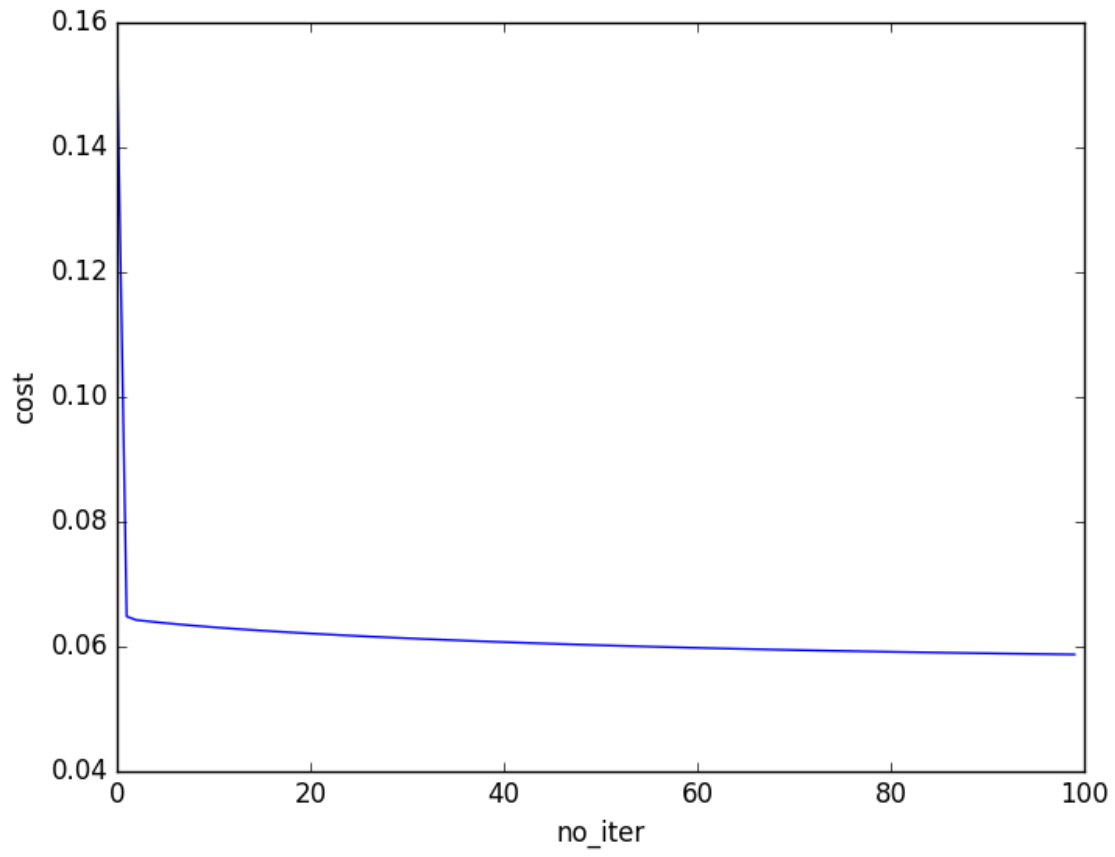
The nature of convergence of the classifiers was also evaluated. For each of the binary classifiers, the errors after each iteration were recorded. The results below were obtained:



Perceptron



Adaline



SGD