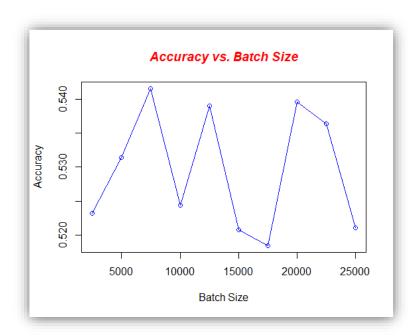
MACHINE LEARNING WITH SPARK MLib

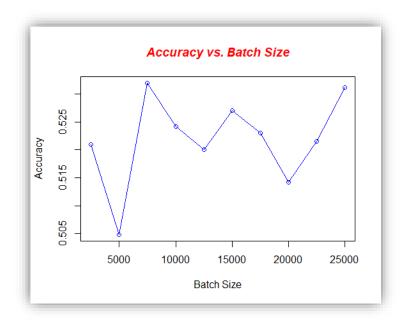
Performance Analysis of Bernoulli Model:

Accuracy vs Batch size: Accuracy is plotted against varying batch sizes (5000, 10000, 15000...) to study the resulting trend

Train Data:



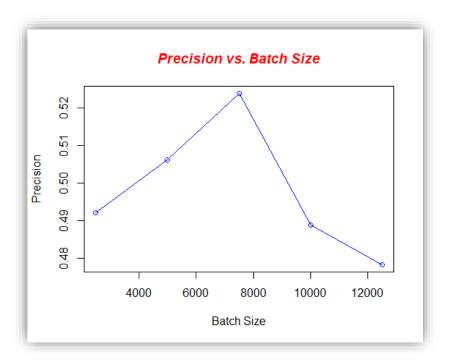
Test Data:



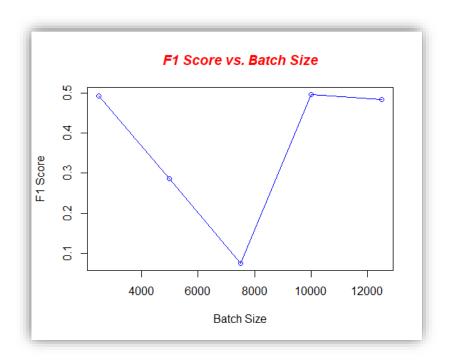
Performance Analysis of Perceptron Model:

Precision vs Batch size: Accuracy is plotted against varying batch sizes (5000, 10000, 15000...) to study the resulting trend

Train Data:



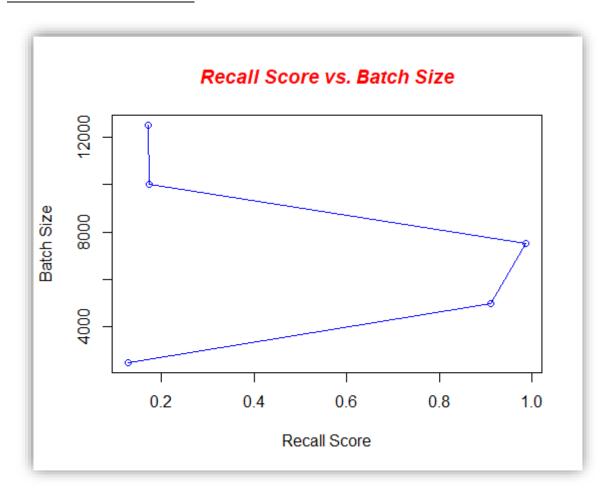
F1 vs Batch Size:



Performance Analysis of SGD Classifier:

Recall vs Batch size: Accuracy is plotted against varying batch sizes (5000, 10000, 15000...) to study the resulting trend

Recall vs. Batch Size:



Confusion Matrix:

Batch Size: 5000

Confusion Matrix: [[440 383] [412 415]] Batch Size: 10000

Confusion Matrix: [[760 879] [701 960]]

Batch Size: 15000

Confusion Matrix: [[1437 1076] [1274 1163]]