

Learning Curve plot

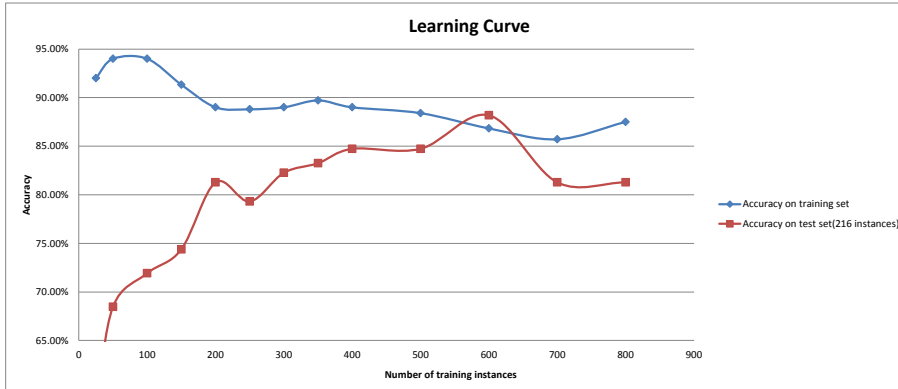
File used for test set :

test.dat

Training set generated based on :

train.dat

Number of Instances in training set	25	50	100	150	200	250	300	350	400	500	600	700	800
Accuracy on training set	92.00%	94.00%	94.00%	91.33%	89.00%	88.80%	89.00%	89.71%	89.00%	88.40%	86.83%	85.71%	87.50%
Accuracy on test set(216 instances)	58.13%	68.47%	71.92%	74.38%	81.28%	79.31%	82.27%	83.25%	84.73%	84.73%	88.18%	81.28%	81.28%



Observations:

- The accuracy of test data set does exhibit usual properties of learning curve as it increases first as the number of training instances increase and then begins to decrease as number of training instances become larger.
- The accuracy curve of training set does not exhibit a monotonically increasing behavior but a dip and raise behaviour at intervals. So training set accuracy does not seem to exhibit usual property of the learning curve although it does seem to increase as number of training instances become larger.