

Naïve Bayes Classifier

ACCURACY ON TEST SET:

Accuracy without removal of stop words:

Ham accuracy % : 93.39

Spam accuracy %: 96.92

Overall accuracy %: 94.35

Accuracy after removal of stop words:

Ham accuracy %: 92.81

Spam accuracy %: 96.15

Overall accuracy %: 93.72

Logistic Regression Classifier

ACCURACY ON TEST SET:

#	Stop words removed	Learning rate	Regularization parameter	Number of iterations	Spam accuracy %	Ham accuracy %
	No	0.01	0.05	450	62	74
	No	0.01	0.05	420	63	77
	No	0.1	0.005	250	79	84
	Yes	0.1	0.005	200	69	90
	Yes	0.5	0.05	180	69	94
	Yes	0.5	0.005	500	72	94