

Logistic Regression:

The values are in order: (C, solver, penalty)

MODEL 1	Recall	F1	Precision	Accuracy
50 words (1, newton-cg, L2)	94.35%	94.58%	94.86%	94.63%
100 words (1, newton-cg, L2)	95.23%	95.64%	96.12%	95.69%
500 words (10, newton-cg, L2)	95.41%	96.57%	97.82%	96.65%
1000 words (100, lbfgs, L2)	95.54%	96.68%	97.89%	96.75%
3000 words (1000, liblinear, L1)	95.01%	96.45%	98.02%	96.49%

MODEL 2	Recall	F1	Precision	Accuracy
50 words (1, lbfgs, L2)	94.53%	95.37%	96.30%	95.45%
100 words (1, newton-cg, L2)	94.77%	95.73%	96.78%	95.81%
500 words (1000, lbfgs, L2)	95.41%	96.57%	97.83%	96.65%
1000 words (100, lbfgs, L2)	95.28%	96.54%	97.90%	96.63%
3000 words (100, liblinear, L1)	95.25%	96.49%	97.84%	96.51%

MODEL 3	Recall	F1	Precision	Accuracy
50 words (1, sag, L2)	94.62%	95.43%	96.37%	95.53%
100 words (1000, liblinear, L1)	95.23%	95.70%	96.30%	95.80%
500 words (100, lbfgs, L2)	95.41%	96.62%	97.93%	96.70%
1000 words (100, sag, L2)	95.39%	96.53%	97.91%	96.68%
3000 words (1000, sag, L2)	95.23%	96.48%	97.79%	96.57%