

Naïve Bayes	BoW		TF-IDF			Random Forest	BoW		TF-IDF			SVM	BoW		TF-IDF	
n	F1 Score	Inference Time	F1 Score	Inference Time		n	F1 Score	Inference Time	F1 Score	Inference Time		n	F1 Score	Inference Time	F1 Score	Inference Time
n = 1	0.8224	0.0001	0.799	0.0001		n = 1	0.9063	0.0076	0.8998	0.008		n = 1	0.8823	0.0072	0.8726	0.0111
n = 2	0.9218	0.0001	0.8963	0.0001		n = 2	0.9489	0.0076	0.943	0.0077		n = 2	0.9195	0.0146	0.9379	0.03
n = 3	0.9342	0.0001	0.9247	0.0001		n = 3	0.9606	0.0105	0.9576	0.0076		n = 3	0.9518	0.0232	0.9511	0.0396
n = 4	0.9342	0.0003	0.9204	0.0001		n = 4	0.9591	0.0094	0.9606	0.0082		n = 4	0.9606	0.026	0.9518	0.0326
n = 5	0.9364	0.0005	0.9079	0.0001		n = 5	0.9591	0.0103	0.962	0.008		n = 5	0.9562	0.0299	0.9569	0.02502
n = 6	0.9335	0.001	0.8873	0.0001		n = 6	0.9591	0.0105	0.9613	0.0085		n = 6	0.9415	0.0369	0.9496	0.0201
n = 7	0.9314	0.0011	0.8627	0.0001		n = 7	0.943	0.0085	0.9547	0.0082		n = 7	0.9342	0.0387	0.9423	0.0158
n = 8	0.9292	0.0019	0.8301	0.0001		n = 8	0.9319	0.0109	0.9437	0.0085		n = 8	0.9216	0.0425	0.9342	0.0134
n = 9	0.9277	0.0027	0.8049	0.0001		n = 9	0.912	0.0106	0.9327	0.0073		n = 9	0.8985	0.047	0.9238	0.0125
n = 10	0.9218	0.0033	0.7502	0.0001		n = 10	0.8926	0.01	0.9216	0.0074		n = 10	0.8721	0.0488	0.9149	0.0111