

2-granout_5idf

Features: Counter with 2-gran and 5-idf
Maximum number of features considered: 100

Logistic Regression

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.03609	874	1407	478	551	0.6844	0.5807	0.6302
2	200 0.01817	714	1326	436	564	0.57	0.6376	0.6029
3	200 0.03097	706	1016	440	545	0.68426	0.62148	0.5363
4	200 0.03069	706	1461	435	539	0.68064	0.67797	0.58062
5	200 0.0307	707	1462	414	583	0.68019	0.68002	0.54751
Average	6.95633	1074	1454	462	561.8	0.68119	0.68102	0.60809

S2D Classifier

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.04369	341	1706	177	588	0.6844	0.6803	0.5745
2	200 0.04369	441	1720	212	627	0.67331	0.67334	0.54779
3	200 0.04369	441	1720	212	627	0.67331	0.67334	0.54779
4	200 0.04369	441	1720	212	627	0.67331	0.67334	0.54779
5	200 0.04369	441	1720	212	627	0.67331	0.67334	0.54779
Average	0.04408	524.6	1016.6	291.8	628.8	0.68106	0.6804	0.61096

Linear SVC

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.10565	622	1801	454	533	0.68719	0.5844	0.5829
2	200 0.10528	602	1842	380	580	0.685	0.62019	0.53705
3	200 0.10565	622	1801	454	533	0.68719	0.5844	0.5829
4	200 0.10565	622	1801	454	533	0.68719	0.5844	0.5829
5	200 0.10565	622	1801	454	533	0.68719	0.5844	0.5829
Average	0.11197	712.4	1952.4	439	562.2	0.68273	0.61008	0.58104

NaïveBayes (gamma=1e-05)

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 32.2033	698	1117	888	527	0.58719	0.44889	0.5088
2	200 31.3864	692	845	987	491	0.54665	0.4462	0.47691
3	200 31.4481	692	1105	741	582	0.57719	0.44882	0.53163
4	200 32.3313	708	864	928	535	0.5325	0.42706	0.45944
5	200 31.7841	709	1028	880	513	0.54849	0.44895	0.50244
Average	31.0503	701.4	1028.8	901.6	507.2	0.56074	0.45847	0.48846

SVC (gamma=1e-05)

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 36.8501	137	1827	98	1008	0.53695	0.619	0.5825
2	200 36.8501	161	1807	65	1107	0.63375	0.71228	0.71207
3	200 36.1081	136	1801	50	1080	0.53695	0.70544	0.71244
4	200 36.1081	136	1801	50	1080	0.53695	0.70544	0.71244
5	200 36.1081	136	1801	50	1080	0.53695	0.70544	0.71244
Average	37.4468	151.2	1865	56.4	1074.8	0.63321	0.72781	0.72855

Gaussian Naive Bayes

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.0184	650	1469	569	571	0.68719	0.6228	0.5832
2	200 0.03062	688	1422	534	588	0.68708	0.57056	0.54894
3	200 0.0184	650	1469	569	571	0.68719	0.6228	0.5832
4	200 0.0184	650	1469	569	571	0.68719	0.6228	0.5832
5	200 0.0184	650	1469	569	571	0.68719	0.6228	0.5832
Average	0.01778	688	1453.8	597.6	575.8	0.68696	0.57346	0.54888

Decision Tree

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.01016	973	1032	473	201	0.7744	0.7239	0.7429
2	200 0.01016	989	1029	463	201	0.7688	0.7199	0.7361
3	200 0.00795	982	1040	456	271	0.7725	0.6829	0.7289
4	200 0.00417	1006	1040	440	260	0.7636	0.6768	0.7026
5	200 0.00422	1010	1034	391	265	0.76875	0.71897	0.71813
Average	0.01408	1004.8	1058.2	423.2	263.4	0.76862	0.69581	0.70681

RandomForest (10 estimators)

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.01065	985	1048	427	260	0.76511	0.69235	0.71975
2	200 0.01023	985	1053	389	263	0.76625	0.72747	0.71981
3	200 0.00795	973	1073	291	271	0.75623	0.72368	0.71404
4	200 0.00427	977	1011	335	277	0.68875	0.74466	0.71911
5	200 0.00651	980	1052	313	262	0.67993	0.70979	0.70625
Average	0.00213	978	1078	354.6	265.6	0.76875	0.72361	0.71717

AdaBoost

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 1.86871	655	1963	412	572	0.69013	0.61367	0.53495
2	200 1.87174	655	1939	385	584	0.69438	0.6146	0.54676
3	200 1.86822	638	1985	381	614	0.6875	0.625	0.53638
4	200 1.71683	618	1963	385	620	0.69106	0.61708	0.54812
5	200 1.8102	700	1914	394	592	0.69168	0.61895	0.54819
Average	1.78848	652.8	1948.8	381.6	604.8	0.68888	0.61817	0.53871

XGBost

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 0.70505	519	1104	271	700	0.68495	0.68088	0.42877
2	200 0.70505	519	1104	271	700	0.68495	0.68088	0.42877
3	200 0.70505	519	1104	271	700	0.68495	0.68088	0.42877
4	200 0.70505	519	1104	271	700	0.68495	0.68088	0.42877
5	200 0.70505	519	1104	271	700	0.68495	0.68088	0.42877
Average	0.4215	588.4	1086.4	275	700.2	0.68925	0.68088	0.44045

Multi-layer Perceptrons

Feature number	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	200 24.543	109	1231	454	261	0.76523	0.6218	0.7059
2	200 2.8773	1046	1111	421	222	0.76605	0.71302	0.64262
3	200 2.85655	980	1029	417	261	0.76605	0.68868	0.70523
4	200 2.85655	1012	1019	427	247	0.76504	0.70227	0.67018
5	200 23.1465	987	1059	340	260	0.76605	0.70477	0.70514
Average	23.858	998	1027.8	415.6	260.8	0.76591	0.70734	0.70528

Features: Counter with 2-gran and 5-idf
Maximum: 1000

Logistic Regression

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00795	707	1655	348	527	0.70505	0.68789	0.58271
2	2000 0.00808	702	1656	339	469	0.7076	0.7025	0.60443
3	2000 0.00818	707	1653	337	471	0.70813	0.70733	0.63031
4	2000 0.00818	702	1663	319	509	0.70769	0.70817	0.60471
5	2000 0.00805	705	1657	339	470	0.70765	0.68077	0.61041
Average	0.00788	713.8	1660.8	331.4	484.8	0.70686	0.68789	0.60457

S2D Classifier

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00795	705	1659	311	524	0.70504	0.68866	0.58451
2	2000 0.00808	704	1534	405	383	0.70258	0.68732	0.60813
3	2000 0.00818	705	1534	405	383	0.70258	0.68732	0.60813
4	2000 0.00808	705	1534	405	383	0.70258	0.68732	0.60813
5	2000 0.00808	705	1534	405	383	0.70258	0.68732	0.60813
Average	0.00808	705.8	1534.8	405.8	383.8	0.70506	0.68789	0.60813

Linear SVC

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00818	800	1529	387	424	0.70504	0.68866	0.58451
2	2000 0.00818	800	1529	387	424	0.70504	0.68866	0.58451
3	2000 0.00818	800	1529	387	424	0.70504	0.68866	0.58451
4	2000 0.00818	800	1529	387	424	0.70504	0.68866	0.58451
5	2000 0.00818	800	1529	387	424	0.70504	0.68866	0.58451
Average	0.00818	800.2	1529.2	387.2	424.2	0.70504	0.68866	0.58451

NaïveBayes (gamma=1e-05)

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
2	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
3	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
4	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
5	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
Average	0.00795	704.8	1655.8	411.8	420.8	0.70813	0.68866	0.57451

SVC (gamma=1e-05)

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
2	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
3	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
4	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
5	2000 0.00795	704	1655	411	420	0.70813	0.68866	0.57451
Average	0.00795	704.8	1655.8	411.8	420.8	0.70813	0.68866	0.57451

Gaussian Naive Bayes

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score
1	2000 0.00795	712	1647	405	582	0.70813	0.68866	0.57451
2	2000 0.00795	712	1647	405	582	0.70813	0.68866	0.57451
3	2000 0.00795	712	1647	405	582	0.70813	0.68866	0.57451
4	2000 0.00795	712	1647	405	582	0.70813	0.68866	0.57451
5	2000 0.00795	712	1647	405	582	0.70813	0.68866	0.57451
Average	0.00795	712.4	1647.4	405.4	582.4	0.70813	0.68866	0.57451

Decision Tree

Feature #	Time to 1 TP	TN	FP	FN	Accuracy	Precision	Recall	F1-Score	
1	2000 0.00795	1158	1643	423	139	0.6438	0.7194	0.6802	
2	2000 0.167165	1128	1516	427	129	0.82625	0.7294	0.89373	0.80228
3	2000 0.181211	1156	1543	437	104	0.83094	0.71861	0.91475	0.85049
4	2000 0.176639	1140	1493	429	138	0.82281	0.72058	0.88002	0.80694
5	2000 0.161814	1141	1505	391	103	0.84653	0.74478	0.9172	0.82205
Average	17,2632	1136	1520	424	122.6	0.85	0.72946	0.90279	0.80658
							Average	367.34	