

MNB

80% training/20% testing						95% training/5% testing						Delta (new-old)			
Score for Emotion	0.437550925					Score for Emotion	0.449225934						0.011675		
Accuracy for Emotion	0.437550925					Accuracy for Emotion	0.449225934						0.011675		
Precision (Weighted) for Emotion	0.485135331					Precision (Weighted) for Emotion	0.490750903						0.005616		
F1 Score (Weighted) for Emotion	0.370297213					F1 Score (Weighted) for Emotion	0.3901304						0.019833		
F1 Score (Macro) for Emotion	0.223413218					F1 Score (Macro) for Emotion	0.249161233						0.025748		
	precision	recall	f1-score	support			precision	recall	f1-score	support		precision	recall	f1-score	support
	0	0.54	0.53	0.54	2102		0	0.53	0.53	0.53	5242	-0.01	0	-0.01	3140
	1	0.63	0.37	0.46	1233		1	0.61	0.42	0.49	3057	-0.02	0.05	0.03	1824
	2	0.49	0.19	0.27	1011		2	0.55	0.23	0.32	2661	0.06	0.04	0.05	1650
	3	0.42	0.14	0.21	1710		3	0.43	0.17	0.25	4173	0.01	0.03	0.04	2463
	4	0.44	0.17	0.24	2290		4	0.45	0.18	0.26	5731	0.01	0.01	0.02	3441
	5	0.54	0.12	0.2	721		5	0.45	0.13	0.21	1762	-0.09	0.01	0.01	1041
	6	0.52	0.09	0.16	944		6	0.56	0.13	0.22	2493	0.04	0.04	0.06	1549
	7	0.56	0.16	0.24	1174		7	0.55	0.18	0.27	2985	-0.01	0.02	0.03	1811
	8	0.55	0.05	0.1	387		8	0.55	0.07	0.13	1065	0	0.02	0.03	678
	9	0.52	0.08	0.14	928		9	0.51	0.1	0.16	2366	-0.01	0.02	0.02	1438
	10	0.48	0.15	0.23	1550		10	0.46	0.18	0.25	3717	-0.02	0.03	0.02	2167
	11	0.56	0.1	0.17	590		11	0.55	0.14	0.22	1437	-0.01	0.04	0.05	847
	12	0.5	0.02	0.04	265		12	0.61	0.03	0.05	699	0.11	0.01	0.01	434
	13	0.45	0.05	0.08	589		13	0.52	0.08	0.14	1512	0.07	0.03	0.06	923
	14	0.74	0.08	0.14	344		14	0.71	0.09	0.17	896	-0.03	0.01	0.03	552
	15	0.79	0.72	0.75	1423		15	0.77	0.74	0.76	3551	-0.02	0.02	0.01	2128
	16	0	0	0	68		16	0	0	0	183	0	0	0	115
	17	0.53	0.18	0.26	866		17	0.5	0.19	0.28	2152	-0.03	0.01	0.02	1286
	18	0.71	0.41	0.52	1001		18	0.69	0.47	0.56	2501	-0.02	0.06	0.04	1500
	19	0	0	0	185		19	0.5	0	0.01	392	0.5	0	0.01	207
	20	0.39	0.89	0.54	11042		20	0.4	0.87	0.55	27584	0.01	-0.02	0.01	16542
	21	0.58	0.18	0.28	955		21	0.58	0.22	0.32	2294	0	0.04	0.04	1339
	22	0	0	0	120		22	0	0	0	323	0	0	0	203
	23	0.54	0.07	0.12	986		23	0.46	0.09	0.15	2320	-0.08	0.02	0.03	1334
	24	0	0	0	157		24	0.17	0	0.01	383	0.17	0	0.01	226
	25	0.53	0.08	0.13	302		25	0.63	0.1	0.18	773	0.1	0.02	0.05	471
	26	0.56	0.13	0.22	758		26	0.55	0.16	0.25	1911	-0.01	0.03	0.03	1153
	27	0.49	0.12	0.19	663		27	0.55	0.16	0.25	1747	0.06	0.04	0.06	1084
	accuracy			0.44	34364		accuracy			0.45	85910			0.01	51546
	macro avg	0.47	0.18	0.22	34364		macro avg	0.49	0.2	0.25	85910	0.02	0.02	0.03	51546
	weighted avg	0.49	0.44	0.37	34364		weighted avg	0.49	0.45	0.39	85910	0	0.01	0.02	51546
Score for Sentiment	0.606070306					Score for Sentiment	0.614759632						0.008689		
Accuracy for Emotion	0.606070306					Accuracy for Emotion	0.614759632						0.008689		
Precision (Weighted) for Emotion	0.600581792					Precision (Weighted) for Emotion	0.609513349						0.008932		
F1 Score (Weighted) for Emotion	0.599332604					F1 Score (Weighted) for Emotion	0.608632921						0.0093		
F1 Score (Macro) for Emotion	0.563918432					F1 Score (Macro) for Emotion	0.575957613						0.012039		
	precision	recall	f1-score	support			precision	recall	f1-score	support					
	0	0.53	0.32	0.4	3767		0	0.54	0.34	0.42	9545	0.01	0.02	0.02	5778
	1	0.6	0.59	0.59	7711		1	0.61	0.61	0.61	19208	0.01	0.02	0.02	11497
	2	0.56	0.57	0.56	11042		2	0.57	0.57	0.57	27584	0.01	0	0.01	16542
	3	0.66	0.75	0.7	11844		3	0.66	0.75	0.7	29573	0	0	0	17729
				0.61	34364					0.61	85910			0	51546
	macro avg	0.59	0.55	0.56	34364		macro avg	0.6	0.57	0.58	85910	0.01	0.02	0.02	51546
	weighted avg	0.6	0.61	0.6	34364		weighted avg	0.61	0.61	0.61	85910	0.01	0	0.01	51546

80% training/20% testing					95% training/5% testing											
Score for Emotion	0.596438133				Score for Emotion	0.621534164				Delta (new-old)	0.025096					
Accuracy for Emotion	0.596438133				Accuracy for Emotion	0.621534164					0.025096					
Precision (Weighted) for Emotion	0.613522205				Precision (Weighted) for Emotion	0.632473884					0.018952					
F1 Score (Weighted) for Emotion	0.592999113				F1 Score (Weighted) for Emotion	0.616308677					0.02331					
F1 Score (Macro) for Emotion	0.512459252				F1 Score (Macro) for Emotion	0.539113605					0.026654					
	precision	recall	f1-score	support		precision	recall	f1-score	support		precision	recall	f1-score	support		
	0	0.57	0.82	0.67	2102		0	0.58	0.82	0.68	5242		0.01	0	0.01	3140
	1	0.58	0.82	0.68	1233		1	0.59	0.83	0.69	3057		0.01	0.01	0.01	1824
	2	0.44	0.7	0.54	1011		2	0.48	0.71	0.57	2661		0.04	0.01	0.03	1650
	3	0.41	0.58	0.48	1710		3	0.43	0.58	0.5	4173		0.02	0	0.02	2463
	4	0.47	0.56	0.51	2290		4	0.49	0.54	0.52	5731		0.02	-0.02	0.01	3441
	5	0.48	0.55	0.51	721		5	0.49	0.58	0.53	1762		0.01	0.03	0.02	1041
	6	0.48	0.58	0.52	944		6	0.52	0.56	0.54	2493		0.04	-0.02	0.02	1549
	7	0.59	0.63	0.61	1174		7	0.61	0.61	0.61	2985		0.02	-0.02	0	1811
	8	0.48	0.58	0.52	387		8	0.54	0.55	0.54	1065		0.06	-0.03	0.02	678
	9	0.46	0.48	0.47	928		9	0.49	0.45	0.47	2366		0.03	-0.03	0	1438
	10	0.53	0.49	0.51	1550		10	0.56	0.49	0.53	3717		0.03	0	0.02	2167
	11	0.55	0.42	0.47	590		11	0.6	0.43	0.5	1437		0.05	0.01	0.03	847
	12	0.46	0.38	0.42	265		12	0.58	0.4	0.47	699		0.12	0.02	0.05	434
	13	0.49	0.41	0.44	589		13	0.57	0.41	0.48	1512		0.08	0	0.04	923
	14	0.61	0.56	0.58	344		14	0.67	0.58	0.62	896		0.06	0.02	0.04	552
	15	0.86	0.83	0.84	1423		15	0.88	0.83	0.85	3551		0.02	0	0.01	2128
	16	0.4	0.28	0.33	68		16	0.48	0.36	0.41	183		0.08	0.08	0.08	115
	17	0.6	0.45	0.51	866		17	0.65	0.45	0.53	2152		0.05	0	0.02	1286
	18	0.76	0.7	0.73	1001		18	0.76	0.74	0.75	2501		0	0.04	0.02	1500
	19	0.6	0.27	0.37	185		19	0.64	0.3	0.41	392		0.04	0.03	0.04	207
	20	0.71	0.65	0.68	11042		20	0.71	0.72	0.71	27584		0	0.07	0.03	16542
	21	0.71	0.4	0.51	955		21	0.72	0.42	0.53	2294		0.01	0.02	0.02	1339
	22	0.62	0.17	0.27	120		22	0.63	0.18	0.28	323		0.01	0.01	0.01	203
	23	0.63	0.25	0.35	986		23	0.64	0.25	0.36	2320		0.01	0	0.01	1334
	24	0.6	0.16	0.25	157		24	0.66	0.25	0.36	383		0.06	0.09	0.11	226
	25	0.65	0.48	0.56	302		25	0.7	0.55	0.62	773		0.05	0.07	0.06	471
	26	0.71	0.4	0.51	758		26	0.7	0.4	0.51	1911		-0.01	0	0	1153
	27	0.63	0.39	0.48	663		27	0.69	0.44	0.54	1747		0.06	0.05	0.06	1084
	accuracy			0.6	34364		accuracy			0.62	85910				0.02	51546
	macro avg	0.57	0.5	0.51	34364		macro avg	0.61	0.52	0.54	85910		0.04	0.02	0.03	51546
	weighted avg	0.61	0.6	0.59	34364		weighted avg	0.63	0.62	0.62	85910		0.02	0.02	0.03	51546
Score for Sentiment	0.720230474				Score for Sentiment	0.73947154					0.019241					
Accuracy for Emotion	0.720230474				Accuracy for Emotion	0.73947154					0.019241					
Precision (Weighted) for Emotion	0.730819334				Precision (Weighted) for Emotion	0.746933632					0.016114					
F1 Score (Weighted) for Emotion	0.722443408				F1 Score (Weighted) for Emotion	0.741232869					0.018789					
F1 Score (Macro) for Emotion	0.706697716				F1 Score (Macro) for Emotion	0.725295616					0.018598					
	precision	recall	f1-score	support		precision	recall	f1-score	support							
	0	0.57	0.72	0.63	3767		0	0.6	0.71	0.65	9545		0.03	-0.01	0.02	5778
	1	0.68	0.78	0.72	7711		1	0.7	0.79	0.74	19208		0.02	0.01	0.02	11497
	2	0.71	0.67	0.69	11042		2	0.73	0.7	0.71	27584		0.02	0.03	0.02	16542
	3	0.84	0.73	0.78	11844		3	0.84	0.76	0.8	29573		0	0.03	0.02	17729
	accuracy			0.72	34364		accuracy			0.74	85910				0.02	51546
	macro avg	0.7	0.72	0.71	34364		macro avg	0.72	0.74	0.73	85910		0.02	0.02	0.02	51546
	weighted avg	0.73	0.72	0.72	34364		weighted avg	0.75	0.74	0.74	85910		0.02	0.02	0.02	51546

80% training/20% testing					95% training/5% testing									
Score for Emotion	0.577581				Score for Emotion	0.469293				Delta (new-old)	-0.10829			
Accuracy for Emotion	0.577581				Accuracy for Emotion	0.469293					-0.10829			
Precision (Weighted) for Emotion	0.570543				Precision (Weighted)	0.459024					-0.11152			
F1 Score (Weighted) for Emotion	0.571757				F1 Score (Weighted)	0.423664					-0.14809			
F1 Score (Macro) for Emotion	0.507736				F1 Score (Macro) for	0.318377					-0.18936			
	precision	recall	f1-score	support		precision	recall	f1-score	support		precision	recall	f1-score	support
0	0.62	0.67	0.65	2101	0	0.55	0.52	0.53	5228		-0.07	-0.15	-0.12	3127
1	0.66	0.67	0.67	1255	1	0.57	0.58	0.57	3080		-0.09	-0.09	-0.1	1825
2	0.52	0.51	0.52	1022	2	0.44	0.26	0.33	2565		-0.08	-0.25	-0.19	1543
3	0.45	0.37	0.41	1682	3	0.28	0.15	0.2	4157		-0.17	-0.22	-0.21	2475
4	0.5	0.41	0.45	2208	4	0.34	0.15	0.21	5589		-0.16	-0.26	-0.24	3381
5	0.49	0.46	0.47	691	5	0.34	0.15	0.21	1702		-0.15	-0.31	-0.26	1011
6	0.49	0.45	0.47	986	6	0.41	0.2	0.27	2483		-0.08	-0.25	-0.2	1497
7	0.57	0.48	0.52	1172	7	0.44	0.22	0.3	2893		-0.13	-0.26	-0.22	1721
8	0.48	0.61	0.54	420	8	0.47	0.26	0.34	1077		-0.01	-0.35	-0.2	657
9	0.44	0.36	0.4	990	9	0.36	0.14	0.2	2358		-0.08	-0.22	-0.2	1368
10	0.47	0.47	0.47	1512	10	0.33	0.15	0.21	3771		-0.14	-0.32	-0.26	2259
11	0.5	0.42	0.46	597	11	0.43	0.21	0.28	1485		-0.07	-0.21	-0.18	888
12	0.38	0.39	0.39	289	12	0.49	0.12	0.2	729		0.11	-0.27	-0.19	440
13	0.46	0.42	0.44	594	13	0.37	0.19	0.25	1499		-0.09	-0.23	-0.19	905
14	0.59	0.58	0.58	332	14	0.52	0.28	0.36	899		-0.07	-0.3	-0.22	567
15	0.85	0.82	0.84	1386	15	0.83	0.76	0.79	3559		-0.02	-0.06	-0.05	2173
16	0.44	0.41	0.42	76	16	0.31	0.05	0.08	174		-0.13	-0.36	-0.34	98
17	0.52	0.47	0.49	857	17	0.48	0.3	0.37	2172		-0.04	-0.17	-0.12	1315
18	0.66	0.82	0.73	1047	18	0.66	0.62	0.64	2442		0	-0.2	-0.09	1395
19	0.48	0.4	0.44	170	19	0.54	0.07	0.13	420		0.06	-0.33	-0.31	250
20	0.63	0.7	0.67	11029	20	0.45	0.83	0.58	27769		-0.18	0.13	-0.09	16740
21	0.49	0.53	0.51	921	21	0.56	0.3	0.39	2297		0.07	-0.23	-0.12	1376
22	0.39	0.29	0.33	129	22	0.42	0.06	0.11	358		0.03	-0.23	-0.22	229
23	0.45	0.32	0.38	958	23	0.39	0.07	0.12	2366		-0.06	-0.25	-0.26	1408
24	0.42	0.38	0.39	165	24	0.4	0.09	0.15	419		-0.02	-0.29	-0.24	254
25	0.54	0.59	0.56	312	25	0.52	0.4	0.45	752		-0.02	-0.19	-0.11	440
26	0.51	0.5	0.51	763	26	0.51	0.21	0.3	1921		0	-0.29	-0.21	1158
27	0.56	0.5	0.53	700	27	0.52	0.26	0.35	1746		-0.04	-0.24	-0.18	1046
accuracy					accuracy			0.47	85910					51546
macro avg	0.52	0.5	0.51	34364	macro_avg	0.46	0.27	0.32	85910					51546
weighted avg	0.57	0.58	0.57	34364	weighted_avg	0.46	0.47	0.42	85910					51546
											-0.11	-0.11	-0.15	51546
Score for Sentiment	0.565155				Score for Sentiment	0.725410313					0.160255			
Accuracy for Emotion	0.565155				Accuracy for Emotion	0.725410313					0.160255			
Precision (Weighted) for Emotion	0.571357				Precision (Weighted) for Emotion	0.724313449					0.152957			
F1 Score (Weighted) for Emotion	0.549716				F1 Score (Weighted) for Emotion	0.724585208					0.17487			
F1 Score (Macro) for Emotion	0.490242				F1 Score (Macro) for Emotion	0.704508824					0.214267			
	precision	recall	f1-score	support		precision	recall	f1-score	support					
0	0.53	0.14	0.22	3816	0	0.65	0.58	0.61	9488		0.12	0.44	0.39	5672
1	0.57	0.46	0.51	7745	1	0.71	0.73	0.72	19231		0.14	0.27	0.21	11486
2	0.48	0.65	0.55	11029	2	0.7	0.7	0.7	27769		0.22	0.05	0.15	16740
3	0.67	0.69	0.68	11774	3	0.79	0.8	0.79	29422		0.12	0.11	0.11	17648
accuracy			0.57	34364	accuracy			0.73	85910				0.16	51546
macro avg	0.56	0.49	0.49	34364	macro avg	0.71	0.7	0.7	85910		0.15	0.21	0.21	51546
weighted avg	0.57	0.57	0.55	34364	weighted avg	0.72	0.73	0.72	85910		0.15	0.16	0.17	51546

MLP Grid Search CV						95% training/5% testing									
80% training/20% testing															
Score for Emotion	0.38347545					Best Score	0.390598					Delta (new-old)	0.007123		
Accuracy for Emotion	0.48879641					Accuracy for Emotion	0.484751						-0.00404		
Precision (Weighted) for Emotion	0.4837059					Precision (Weighted) for Emotion	0.48579						0.002084		
F1 Score (Weighted) for Emotion	0.46375137					F1 Score (Weighted) for Emotion	0.453676						-0.01008		
F1 Score (Macro) for Emotion	0.36344663					F1 Score (Macro) for Emotion	0.34276						-0.02069		
	precision	recall	f1-score	support		precision	recall	f1-score	support		precision	recall	f1-score	support	
	0	0.54	0.62	0.58	2111	0	0.54	0.61	0.57	5237	0	-0.01	-0.01	3126	
	1	0.59	0.62	0.61	1213	1	0.58	0.59	0.59	3015	-0.01	-0.03	-0.02	1802	
	2	0.48	0.37	0.42	1035	2	0.5	0.34	0.4	2615	0.02	-0.03	-0.02	1580	
	3	0.41	0.27	0.32	1684	3	0.41	0.25	0.31	4202	0	-0.02	-0.01	2518	
	4	0.39	0.24	0.3	2158	4	0.43	0.23	0.3	5652	0.04	-0.01	0	3494	
	5	0.37	0.3	0.33	681	5	0.41	0.29	0.34	1781	0.04	-0.01	0.01	1100	
	6	0.46	0.28	0.35	1025	6	0.47	0.24	0.32	2490	0.01	-0.04	-0.03	1465	
	7	0.46	0.31	0.37	1172	7	0.49	0.3	0.37	2907	0.03	-0.01	0	1735	
	8	0.52	0.26	0.35	423	8	0.55	0.21	0.3	1049	0.03	-0.05	-0.05	626	
	9	0.48	0.22	0.3	919	9	0.44	0.18	0.26	2369	-0.04	-0.04	-0.04	1450	
	10	0.43	0.3	0.35	1576	10	0.42	0.27	0.33	3918	-0.01	-0.03	-0.02	2342	
	11	0.54	0.29	0.38	588	11	0.54	0.27	0.36	1484	0	-0.02	-0.02	896	
	12	0.46	0.16	0.23	276	12	0.58	0.12	0.19	725	0.12	-0.04	-0.04	449	
	13	0.43	0.19	0.26	583	13	0.46	0.19	0.26	1458	0.03	0	0	875	
	14	0.57	0.3	0.39	338	14	0.58	0.28	0.38	902	0.01	-0.02	-0.01	564	
	15	0.73	0.8	0.76	1408	15	0.74	0.8	0.77	3520	0.01	0	0.01	2112	
	16	0.2	0.01	0.02	81	16	0.2	0.01	0.01	178	0	0	-0.01	97	
	17	0.5	0.36	0.42	910	17	0.47	0.31	0.37	2113	-0.03	-0.05	-0.05	1203	
	18	0.65	0.62	0.63	1000	18	0.64	0.63	0.63	2428	-0.01	0.01	0	1428	
	19	0.46	0.06	0.11	180	19	0.52	0.03	0.05	406	0.06	-0.03	-0.06	226	
	20	0.47	0.73	0.57	11089	20	0.45	0.76	0.57	27720	-0.02	0.03	0	16631	
	21	0.51	0.4	0.45	903	21	0.5	0.35	0.41	2217	-0.01	-0.05	-0.04	1314	
	22	0.56	0.06	0.11	141	22	0.39	0.03	0.05	354	-0.17	-0.03	-0.06	213	
	23	0.38	0.18	0.25	981	23	0.43	0.17	0.24	2398	0.05	-0.01	-0.01	1417	
	24	0.41	0.07	0.12	154	24	0.52	0.03	0.06	380	0.11	-0.04	-0.06	226	
	25	0.59	0.32	0.41	299	25	0.58	0.27	0.37	768	-0.01	-0.05	-0.04	469	
	26	0.44	0.31	0.36	743	26	0.49	0.3	0.37	1920	0.05	-0.01	0.01	1177	
	27	0.48	0.34	0.4	693	27	0.51	0.33	0.4	1704	0.03	-0.01	0	1011	
	accuracy			0.49	34364	accuracy			0.48	85910				-0.01	51546
	macro	0.48	0.32	0.36	34364	macro_avg	0.49	0.3	0.34	85910	0.01	-0.02	-0.02	51546	
	weighted_avg	0.48	0.49	0.46	34364	weighted_i	0.49	0.48	0.45	85910	0.01	-0.01	-0.01	51546	
Best Score	0.53839044					Best estimator (Sentiment)	0.543696					0.005306			
Accuracy for Emotion	0.61247235					Accuracy for Emotion	0.617332					0.00486			
Precision (Weighted) for Emotion	0.60704895					Precision (Weighted) for Emotion	0.612228					0.005179			
F1 Score (Weighted) for Emotion	0.60548715					F1 Score (Weighted) for Emotion	0.611357					0.00587			
F1 Score (Macro) for Emotion	0.57227864					F1 Score (Macro) for Emotion	0.57956					0.007282			
	precision	recall	f1-score	support		precision	recall	f1-score	support						
	0	0.55	0.33	0.41	3871										
	1	0.61	0.6	0.6	7719	0	0.55	0.35	0.42	9499	-0.06	-0.25	-0.18	1780	
	2	0.57	0.56	0.57	11089	1	0.62	0.61	0.61	19487	0.05	0.05	0.04	8398	
	3	0.66	0.76	0.71	11685	2	0.58	0.57	0.57	27720	-0.08	-0.19	-0.14	16035	
						3	0.66	0.75	0.71	29204	0.66	0.75	0.71	29204	
	accuracy			0.61	34364	accuracy			0.62	85910			0.01	51546	
	macro avg	0.6	0.56	0.57	34364	macro_avg	0.6	0.57	0.58	85910	0	0.01	0.01	51546	
	weighted avg	0.61	0.61	0.61	34364	weighted_i	0.61	0.62	0.61	85910	0	0.01	0	51546	

DT Grid Search CV						95% training/5% testing						Delta (new-old)			
80% training/20% testing															
Score for Emotion	0.59469212					Best Score	0.404464								
Accuracy for Emotion	0.59469212					Accuracy for Emotion	0.505529								
Precision (Weighted) for Emotion	0.61184786					Precision (Weighted) for Emotion	0.510401								
F1 Score (Weighted) for Emotion	0.59152071					F1 Score (Weighted) for Emotion	0.464475								
F1 Score (Macro) for Emotion	0.51684704					F1 Score (Macro) for Emotion	0.371004								
precision	recall	f1-score	support			precision	recall	f1-score	support			precision	recall	f1-score	support
0	0.56	0.82	0.66	2101		0	0.58	0.55	0.57	2101		0.02	-0.27	-0.09	0
1	0.6	0.84	0.7	1255		1	0.63	0.66	0.65	1255		0.03	-0.18	-0.05	0
2	0.44	0.72	0.55	1022		2	0.48	0.33	0.39	1022		0.04	-0.39	-0.16	0
3	0.4	0.57	0.47	1682		3	0.35	0.19	0.24	1682		-0.05	-0.38	-0.23	0
4	0.45	0.57	0.5	2208		4	0.42	0.2	0.27	2208		-0.03	-0.37	-0.23	0
5	0.46	0.55	0.5	691		5	0.4	0.2	0.26	691		-0.06	-0.35	-0.24	0
6	0.48	0.56	0.52	986		6	0.45	0.23	0.31	986		-0.03	-0.33	-0.21	0
7	0.55	0.58	0.57	1172		7	0.5	0.24	0.32	1172		-0.05	-0.34	-0.25	0
8	0.5	0.56	0.53	420		8	0.49	0.28	0.36	420		-0.01	-0.28	-0.17	0
9	0.46	0.45	0.46	990		9	0.44	0.16	0.23	990		-0.02	-0.29	-0.23	0
10	0.53	0.47	0.5	1512		10	0.43	0.22	0.29	1512		-0.1	-0.25	-0.21	0
11	0.55	0.38	0.45	597		11	0.54	0.23	0.33	597		-0.01	-0.15	-0.12	0
12	0.53	0.41	0.46	289		12	0.56	0.21	0.3	289		0.03	-0.2	-0.16	0
13	0.52	0.42	0.47	594		13	0.55	0.2	0.3	594		0.03	-0.22	-0.17	0
14	0.66	0.61	0.63	332		14	0.64	0.38	0.48	332		-0.02	-0.23	-0.15	0
15	0.86	0.83	0.84	1386		15	0.85	0.8	0.82	1386		-0.01	-0.03	-0.02	0
16	0.48	0.36	0.41	76		16	0.38	0.11	0.16	76		-0.1	-0.25	-0.25	0
17	0.61	0.47	0.53	857		17	0.55	0.34	0.42	857		-0.06	-0.13	-0.11	0
18	0.77	0.7	0.73	1047		18	0.73	0.67	0.7	1047		-0.04	-0.03	-0.03	0
19	0.49	0.26	0.34	170		19	0.65	0.15	0.25	170		0.16	-0.11	-0.09	0
20	0.71	0.65	0.68	11029		20	0.47	0.86	0.61	11029		-0.24	0.21	-0.07	0
21	0.67	0.39	0.49	921		21	0.61	0.3	0.4	921		-0.06	-0.09	-0.09	0
22	0.53	0.18	0.27	129		22	0.67	0.06	0.11	129		0.14	-0.12	-0.16	0
23	0.58	0.23	0.33	958		23	0.47	0.1	0.16	958		-0.11	-0.13	-0.17	0
24	0.72	0.21	0.32	165		24	0.48	0.1	0.16	165		-0.24	-0.11	-0.16	0
25	0.67	0.46	0.55	312		25	0.59	0.48	0.53	312		-0.08	0.02	-0.02	0
26	0.68	0.41	0.51	763		26	0.6	0.26	0.37	763		-0.08	-0.15	-0.14	0
27	0.67	0.4	0.5	700		27	0.52	0.32	0.4	700		-0.15	-0.08	-0.1	0
accuracy			0.59	34364		accuracy			0.51	34364				-0.08	0
macro	0.58	0.5	0.52	34364		macro_avg	0.54	0.32	0.37	34364		-0.04	-0.18	-0.15	0
weighted_avg	0.61	0.59	0.59	34364		weighted_i	0.51	0.51	0.46	34364		-0.1	-0.08	-0.13	0
Best Score	0.72081248					Best estimator (Sentiment)	0.515219							-0.20559	
Accuracy for Emotion	0.72081248					Accuracy for Emotion	0.627197							-0.09362	
Precision (Weighted) for Emotion	0.73241701					Precision (Weighted) for Emotion	0.673676							-0.05874	
F1 Score (Weighted) for Emotion	0.72335867					F1 Score (Weighted) for Emotion	0.629506							-0.09385	
F1 Score (Macro) for Emotion	0.70629159					F1 Score (Macro) for Emotion	0.603656							-0.10264	
precision	recall	f1-score	support			precision	recall	f1-score	support						
0	0.56	0.72	0.63	3816		0	0.55	0.46	0.5	3816		-0.01	-0.26	-0.13	0
1	0.67	0.77	0.72	7745		1	0.69	0.5	0.58	7745		0.02	-0.27	-0.14	0
2	0.71	0.66	0.69	11029		2	0.51	0.79	0.62	11029		-0.2	0.13	-0.07	0
3	0.84	0.74	0.79	11774		3	0.86	0.61	0.71	11774		0.02	-0.13	-0.08	0
accuracy			0.72	34364		accuracy			0.63	34364				-0.09	0
macro_avg	0.7	0.72	0.71	34364		macro_avg	0.65	0.59	0.6	34364		-0.05	-0.13	-0.11	0
weighted_avg	0.73	0.72	0.72	34364		weighted_i	0.67	0.63	0.63	34364		-0.06	-0.09	-0.09	0

80% training/20% testing

F1 Score (Macro)
for Emotion

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

weighted_avg

F1 Score (Macro) for Emotion

0
1
2
3

avg

F1 Score (Macro) for Emotion

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

weighted_avg

F1 Score (Macro) for Emotion

0

[illegible]

0	0	0	0
0	0	0	0
0	0	0	0

0
0
0
0
0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0 0

0 0 0 0

0 0 0 0