

Introduction to Data Science and Analytics

Group Number 1 / Delivery 5

12 May 2019

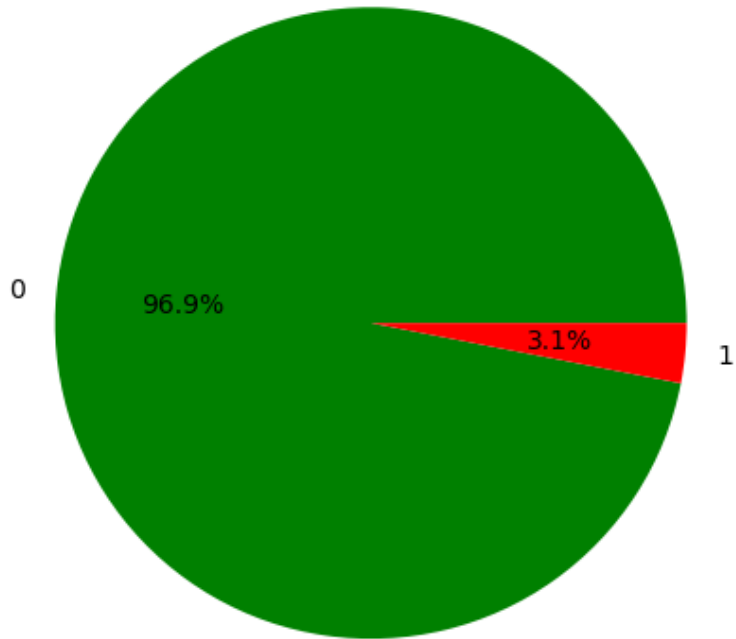
Table 1: Features and Their Values

Features and Their Values							
#	<i>Feature Names</i>	<i>Description</i>	<i>Cluster1 (Negative)</i>	<i>Cluster2 (Positive)</i>	<i>Total</i>	<i>Type</i>	<i>Overall Average</i>
1	good	word	57	172	229	nominal	0.076333
2	great	word	17	191	208	nominal	0.069333
3	movie	word	95	86	181	nominal	0.060333
4	phone	word	78	87	165	nominal	0.055000
5	film	word	72	91	163	nominal	0.054333
6	one	word	78	68	146	nominal	0.048667
7	food	word	65	60	125	nominal	0.041667
8	like	word	67	58	125	nominal	0.041667
9	place	word	56	58	114	nominal	0.038000
10	time	word	62	50	112	nominal	0.037333
11	service	word	53	55	108	nominal	0.036000
12	really	word	43	60	103	nominal	0.034333
13	bad	word	95	7	102	nominal	0.034000
14	well	word	26	63	89	nominal	0.029667
15	best	word	19	59	78	nominal	0.026000
16	even	word	49	28	77	nominal	0.025667
17	ever	word	48	28	76	nominal	0.025333
18	also	word	30	44	74	nominal	0.024667
19	back	word	48	25	73	nominal	0.024333
20	quality	word	28	38	66	nominal	0.022000
21	go	word	35	29	64	nominal	0.021333
22	love	word	10	51	61	nominal	0.020333
23	made	word	26	32	58	nominal	0.019333
24	work	word	40	16	56	nominal	0.018667
25	product	word	22	34	56	nominal	0.018667
26	get	word	34	21	55	nominal	0.018333
27	nice	word	4	49	53	nominal	0.017667
28	better	word	26	27	53	nominal	0.017667
29	excellent	word	6	47	53	nominal	0.017667
30	works	word	4	49	53	nominal	0.017667

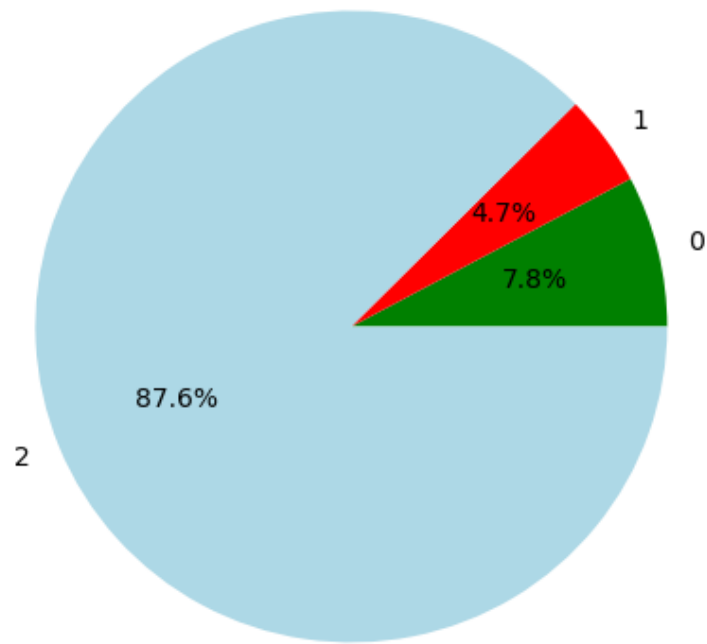
Table 2: Features and Their Values

Features and Their Values			
	<i>k=2</i>	<i>k=3</i>	<i>k=5</i>
Cluster 0	2664	213	2377
Cluster 1	84	129	53
Cluster 2	-	2406	114
Cluster 3	-	-	51
Cluster 4	-	-	153
Overall Average	1374.0	916.0	549.6
STD	0.17214326065001764	0.5623139798013362	1.0479497680905905
SSE	1396	6431	3786
NMI	0.0008379505803413498	0.03459079818237664	0.0032774096303950363
Silhouette Value	0.001614085096514876	0.004749202598581923	0.004377112827600871
RI	0.49994621630371944	0.5041961880871497	0.5001788374137408

1 Pie Chart for k is 2



2 Pie Chart for k is 3



3 Pie Chart for k is 5

