SMAI – Locally Linear Learning Machines (L3M)

Dundi Vinayak Doddipatla, Garlapati B M K Rao, Lalit Mohan (#201350896)

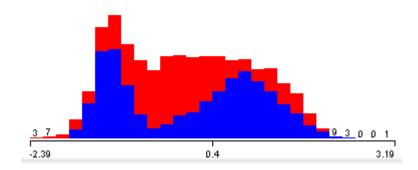
As the information and algorithm for identifying the regions is not available in Locally Linear Learning Machines, we implement "Mixture of Experts "for region identification and classification. Mixture of Experts is a combination of simpler methods to improve predictions. For region identification, we use Softmax function and identification of classes in the region, we use Logistic regression function. We use Weka library for region identification.

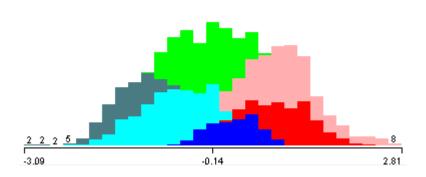
We compare our results with the results of AdaBoost, SVM – Linear, RBF and Decision Tree. The results for each of the dataset are available in the following sections.

Banana

Dimensions : 2 Classes : 2 (1,2)

Total records: 5300, Training - 400 (7. 5472%), Test: 4900 records





Time taken to build model: 4.32 seconds

Logistic Regression with ridge parameter of 1.0E-8 Coefficients...

Variable	Class region1	region2	region3	region4	region5
V1	10.4592	25.288	-8.2805	-21.2537	22.2848
V2	54.1684	15.5529	33.0239	7.1841	36.8221
Class	2.089	2.0118	-0.6089	2.6436	1.6972
Intercept	-11.7056	0.7661	10.0392	-14.4696	5.4836

Odds Ratios...

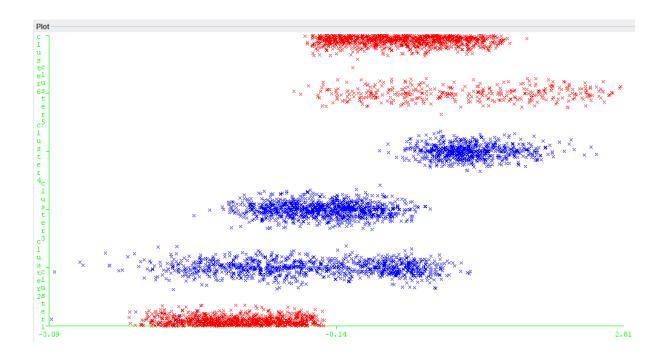
Variable	region1	region2	region3	region4	region5
V1	34864.3918	9.603282197568042E10	0.0003	 0	4765983132.1051
V2	3.349985176856391E23	5682452.2901	2.1983502533748E14	1318.3046	9.809707696703912E15
Class	8.0767	7.4764	0.544	14.0636	5.4587

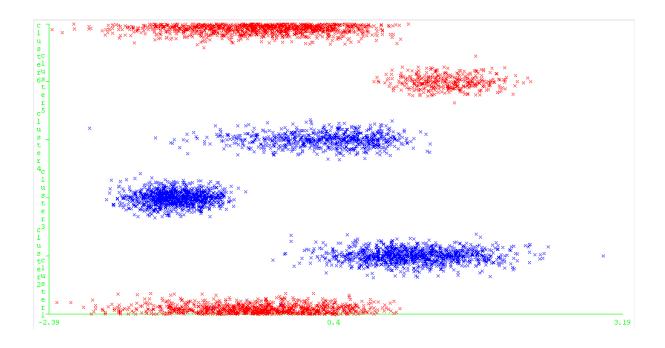
Correctly Classified Instances	4850	98.9796 %
Incorrectly Classified Instances	50	1.0204 %
Kappa statistic	0.9875	
Mean absolute error	0.0034	
Root mean squared error	0.0559	
Relative absolute error	1.2453 %	
Root relative squared error	15.1224 %	
Total Number of Instances	4900	

a	b	С	d	e	f	< classified as
887	0	4	0	0	4	a = region1
2	1000) 3	3 3	3 6	0	b = region2
0	0	986	25	0	0	c = region3
0	4	2	669	0	1	d = region4
0	2	0	0	336	0	e = region5
0	0	0	0	0	972	f = region6

End System Time for our L3M is 1493351447180

Overall Accuracy of our L3M Classification : 98.98%





AdaBoost

Start System Time is 1493352133932

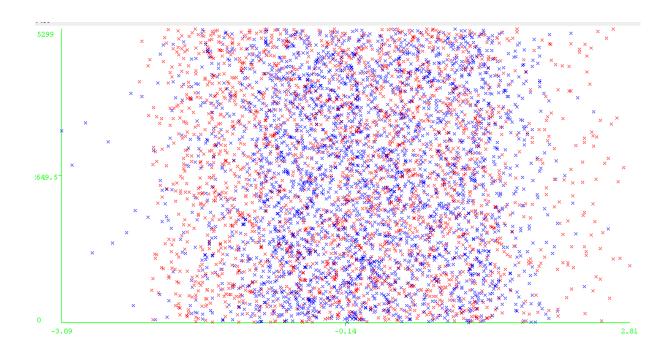
Correctly Classified Instances	3383	69.0408 %
Incorrectly Classified Instances	1517	30.9592 %
Kappa statistic	0.3632	
Mean absolute error	0.4212	
Root mean squared error	0.4525	
Relative absolute error	85.3233 %	
Root relative squared error	90.9474 %	
Total Number of Instances	4900	

=== Confusion Matrix ===

a b <-- classified as 2150 549 | a = 1 968 1233 | b = 2

End System Time is 1493352134547

Accuracy of AdaBoostM1: 69.04%



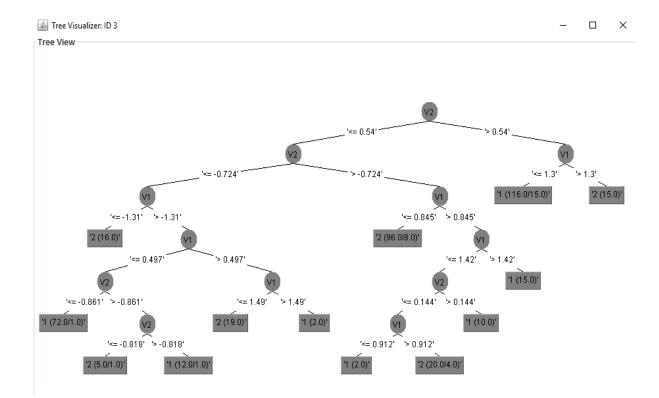
Start System Time for Decision Tree is 1493352139236

Correctly Classified Instances	4099	83.6531 %
Incorrectly Classified Instances	801	16.3469 %
Kappa statistic	0.6686	
Mean absolute error	0.2015	
Root mean squared error	0.3707	
Relative absolute error	40.8242 %	
Root relative squared error	74.5009 %	
Total Number of Instances	4900	

=== Confusion Matrix ===

a b <-- classified as 2338 361 | a = 1 440 1761 | b = 2

End System Time for Decision Tree is 1493352139485 Accuracy of Decision Tree : 76.35%



Start System Time for SVM is 1493352150699

Polynomial Kernel		
Correctly Classified Instances	2699	55.0816 %
Incorrectly Classified Instances	2201	44.9184 %
Kappa statistic	0	
Mean absolute error	0.4492	
Root mean squared error	0.6702	
Relative absolute error	90.9869 %	
Root relative squared error	134.7048 %	
Total Number of Instances	4900	

=== Confusion Matrix ===

a b <-- classified as 2699 0 | a = 1 2201 0 | b = 2

End System Time for SVM is 1493360244102

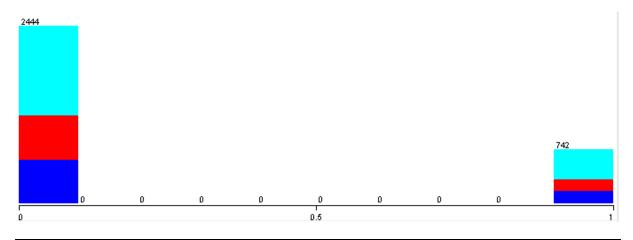
RBF

Start System Time for SVM is 1493360299925							
Correctly Classified Instances	2699	55.0816 %					
Incorrectly Classified Instances	2201	44.9184 %					
Kappa statistic	0						
Mean absolute error	0.4492						
Root mean squared error	0.6702						
Relative absolute error	90.9869 %						
Root relative squared error	134.7048 %						

End System Time for SVM is 1493360301070

DNA dataset (StatLog)

3 Classes 180 Dimensions Training Set : 2000 Test Set : 1186



Start System Time for our L3M is 1493352810038

L3M Classification Results

928	78.2462 %
258	21.7538 %
0.7269	
0.0731	
0.2669	
27.6954 %	
73.4278 %	
1186	
	258 0.7269 0.0731 0.2669 27.6954 % 73.4278 %

a	b	С	d	e	f	< classified as
119	10	4	2	12	18	a = region1
4	287	18	9	12	22	b = region2
3	6	25	1	6	0	c = region3
7	9	5	249	8	4	d = region4
15	7	5	12	112	11	e = region5
11	14	6	8	9	136	f = region6

Logistic Regression with ridge parameter of 1.0E-8 Coefficients...

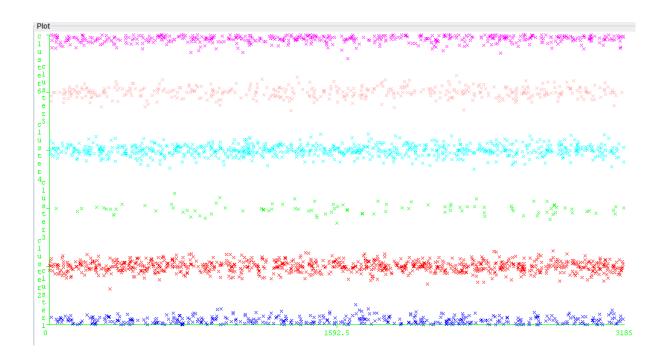
coerricients					
Variable	Class region1	region2	region3	region4	region5
attribute_0	-7.0683	-4.1585	-33.6067	-11.1388	-16.3349
attribute_1 attribute 2	3.8683 -8.4103	-20.5725 -13.629	7.1988 2.019	12.5853 -21.0988	-5.1617 -3.4048
attribute_3	-14.997	-29.9147	-23.4539	4.7957	-1.0074
attribute_4 attribute 5	5.7666 -3.9018	-10.0053 -14.4207	-4.0227 24.4925	13.0794 10.8335	-13.2545 -18.86
attribute_6	-19.0161	-12.6854	-39.785	-11.6793	1.604
<pre>attribute_7 attribute_8</pre>	-2.0281 8.0304	1.2597 10.9933	-36.2283 -18.2323	7.0602 7.8551	4.4169 12.6729
attribute_9	-14.4289	2.0138	-20.963	6.5411	1.0501
attribute_10 attribute 11	12.4442 -7.3086	-3.9592 -9.3466	-17.4193 -22.348	31.5457 -5.2663	9.7394 -13.8991
attribute_12	-12.8972	0.5978	23.6797	7.8194	11.0241
attribute_13 attribute 14	16.6051 10.2763	11.2095 16.1934	47.8442 52.9827	11.1476 22.0645	10.0166 8.5806
attribute_15	-3.4962	-4.335	-37.2018	-16.7354	-4.2454
attribute_16 attribute 17	7.417 15.4645	6.3182 4.079	-9.8251 7.9135	0.0737 1.8736	-3.0957 0.1777
attribute_18	-8.3378	-21.3528	17.4775	-9.8598	-9.6442
attribute_19 attribute 20	15.7389 -7.5963	12.0409 -5.7376	23.212 13.7394	37.3348 -7.6789	25.6326 -15.2815
attribute_21	-15.4746	15.001	9.2191	11.9171	7.6153
attribute_22	5.4788	5.9496	0.9759	2.6505	-8.2844 -11.168
attribute_23 attribute_24	4.0201 -2.4394	-0.8005 -25.5128	31.4635 -6.5107	6.0943 -10.6395	-6.3829
attribute_25	23.6209	17.4107	21.6462	6.5244	11.1868
attribute_26 attribute 27	4.4757 -0.9212	14.7247 2.2244	22.745 -16.0379	-19.0825 9.0382	-0.776 8.8844
attribute_28	2.8615	19.983	16.0953	32.1382	-1.647
attribute_29 attribute 30	7.4788 -10.949	21.7032 9.9143	23.4048 -25.9945	7.61 -16.386	6.8733 -7.9667
attribute_31	-0.1563	7.6446	-0.7584	-0.8045	3.0453
attribute_32 attribute 33	-1.2455 -13.2194	6.846 -10.4526	13.1533 -23.0295	-16.6958 -0.9698	-12.6831 9.463
attribute_34	14.3972	5.6368	-9.858	22.3271	14.5448
attribute_35 attribute 36	0.7846 -8.5083	-3.4879 4.2532	-3.3135 -0.4062	2.7433 -7.8518	5.0269 -2.622
attribute_37	11.9008	19.7392	35.2664	13.0763	2.6491
attribute_38 attribute 39	-4.1319 -1.9534	15.0191 26.6862	-9.4705 14.2054	6.2387 -4.0511	-8.7658 6.1861
attribute_40	18.9895	25.3658	20.0645	16.313	14.177
attribute_41 attribute 42	8.4641 4.116	34.0564 -6.5134	61.3251 16.5463	5.8992 7.6918	2.8551 3.807
attribute_43	19.1697	28.4578	5.8995	24.4426	3.7798
attribute_44 attribute 45	5.0716 -12.3246	13.6024 7.8531	7.3825 -4.8466	1.2104 -14.8683	-4.8854 1.0509
attribute_46	6.9659	47.9647	-11.6561	9.6401	15.081
attribute_47 attribute 48	3.4421 -19.3367	35.1848 -23.2917	-10.6632 -3.9567	1.568 -30.8135	-9.7896 -11.5858
attribute_49	-6.0397	-18.2786	47.0751	-4.2605	-14.8563
attribute_50 attribute 51	-0.7621 -9.0125	-0.293 -18.5196	15.3213 -45.088	-23.6895 -16.4798	-12.408 -17.7935
attribute_52	2.6954	-12.3549	-8.2776	5.6554	-9.8977
attribute_53 attribute 54	0.6214 -4.5349	-2.9091 -24.9895	14.0159 -15.4523	5.0985 -19.2784	-14.6574 0.1947
attribute_55	13.6391	-3.2073	20.9654	9.709	15.0481
attribute_56 attribute_57	5.7886 -15.59	-13.9312 -24.623	11.8584 -56.6501	-12.0732 -57.9405	-20.1811 -10.2221
attribute_58	-0.1893	-11.5616	-18.7514	-4.1842	5.6446
attribute_59 attribute 60	-10.5724 -24.3924	-21.1667 -5.7924	1.6571 -0.6564	-36.449 -25.2403	-20.8206 -8.4065
attribute_61	10.6227	0.4004	21.0215	23.4755	10.2428
attribute_62 attribute_63	-2.8412 0.2379	-30.1289 -9.9655	-25.7574 -5.9578	-17.0629 -21.8482	5.0713 -13.9126
attribute_64	9.935	7.3498	-20.4412	11.2503	2.0561
attribute_65 attribute 66	3.4749 0.2029	-9.1162 6.3784	28.2665 -39.1242	5.1748 -57.0621	-8.6739 -9.3867
attribute_67	16.8558	31.5909	-50.2422	16.4041	10.3407
attribute_68 attribute_69	9.0242 -11.8271	-2.0801 3.2878	-41.1406 -14.5376	-7.2015 -28.979	-2.9242 -1.5735
attribute_70	12.7601	17.3848	13.2483	2.0424	14.4694
attribute_71 attribute 72	8.7201 -8.3126	38.432 -3.243	14.039 -0.5676	-34.1498 -81.818	5.0574 -5.8895
attribute_72	16.3199	-8.0136	-2.7666	-9.8344	-1.9166
attribute_74 attribute 75	8.8443	36.9465 3.5012	29.3193	-27.827 -31.4751	-6.7727 -9.2184
attribute_76	-6.0378 12.3096	8.1697	24.8565 2.4387	-3.9629	-6.6746
attribute_77 attribute 78	15.8406	-14.0216 -14.6891	13.1945	-55.3687	-9.4404 0.3719
attribute_78 attribute_79	-20.377 7.9678	21.9756	0.4004 20.2379	23.1096 42.8201	15.1389
attribute_80	4.3811	32.4436	29.3041	31.8986	-5.8418
attribute_81 attribute_82	-3.4178 15.6502	61.6069 52.3886	18.7842 43.5782	-106.0061 26.2344	17.4493 16.4496
attribute_83	5.8388	13.4427	2.2851	-69.6146	-15.0477
attribute_84 attribute_85	-3.7442 14.3033	-10.3182 -6.7027	-14.4146 1.0405	84.2553 -13.5825	33.8868 -17.3792
attribute_86	2.2482	-5.1479	-49.7905	-44.8618	-133.9559
attribute_87 attribute_88	-15.673 7.7025	-43.3618 -3.3093	-70.991 -74.5932	-65.1568 -22.1066	-916.3662 -29.7546
attribute_89	19.3153	53.3519	86.6972	92.1191	54.8289
attribute_90	-11.8659	10.3504	-152.5739	13.978	-15.9997

attribute_91 attribute_92	12.494 -2.4863	11.9671 178.5326	-124.3327 62.0297	-17.1234 18.7821	-44.2184 13.8317
attribute_92	-7.3496	-46.0492	-11.0622	-3.8402	-8.0823
attribute_94	-1.2453	-124.5538	15.417	5.5392	-11.9554
attribute_95	-3.9932	-134.4465	16.3887	-11.3128	-18.4507
attribute_96	-0.278	-22.6225	-26.6157	-14.5965	9.9894
attribute_97	2.492	-188.6769	-77.8685	-1.3063	-15.7751
attribute_98 attribute 99	0.3318 -16.3438	-2.6383 0.3511	-8.2771 7.3357	25.2871 -5.7513	9.8755 -1.6506
attribute 100	3.969	-40.5575	-30.415	24.2737	-12.7207
attribute_101	-1.4796	-14.185	-8.0196	19.1294	-4.1539
attribute_102	-5.7442	-166.5986	-28.8052	-12.3623	-2.9099
attribute_103	14.4432	-174.3712	-26.6606	-9.2709	4.3628
attribute_104	-2.0801	9.1791	-19.6413	-17.0799	2.0869
attribute_105 attribute 106	-6.5603 3.136	6.6242 3.9147	-11.3946 3.9931	0.959 10.538	1.3066 6.3048
attribute_107	0.3767	-26.8095	-14.4567	-0.9892	-10.5261
attribute_108	-8.6334	-2.9375	-2.8589	-17.9082	4.6067
attribute_109	18.8419	5.6914	-1.8559	-3.3295	1.5592
attribute_110	-1.5054	16.6455	27.5617	-7.9414	-1.0682
attribute_111 attribute_112	-13.9579 6.7024	-11.6128 7.9782	-50.7974 -39.6391	-4.1715 15.578	-6.2073 5.6472
attribute 113	2.6394	21.0868	-8.4534	5.7304	-9.487
attribute_114	-13.9822	-22.6471	-33.5345	-16.5704	-9.1208
attribute_115	6.6705	-4.7471	-36.8899	-3.854	-1.4792
attribute_116	3.5103	-5.5467	-10.0613	-5.8526	5.9842
attribute_117	-14.4702	-23.7452	-6.4873	-5.5381 14 7200	-10.8846
attribute_118 attribute 119	3.0984 -2.475	-4.4259 -1.3749	-28.1335 6.8244	-14.7388 -6.0044	-4.0545 -4.4907
attribute_120	-10.8713	-35.4942	-10.2815	-28.8046	-2.702
attribute_121	14.398	-13.0538	-13.5249	0.5829	-0.5364
attribute_122	-2.9714	-23.3402	-3.6575	-28.1529	-11.8719
attribute_123	1.0179	11.5563	3.8979	26.1751	1.1519
attribute_124	21.9152 12.2499	-8.9103 8.6147	16.322 32.8386	25.7491	3.3989
attribute_125 attribute 126	-2.862	8.6147 -10.5698	-54.5586	18.7668 3.8584	12.3204 -1.867
attribute_127	19.8304	-1.6568	-0.3462	-0.0876	-4.009
attribute_128	6.0121	-11.1525	9.5542	18.6254	0.7112
attribute_129	-4.7483	-34.6966	-45.7	-11.1735	3.7924
attribute_130	-3.8681	-14.224	-37.3975	-15.1852	1.5522
attribute_131 attribute 132	-1.1928 -9.9341	-9.8163 -18.1087	-13.6695 -7.3294	-18.2213 6.8041	-19.545 3.6101
attribute 133	7.5868	-24.5419	-18.727	-17.6133	-9.5623
attribute_134	-3.5281	-36.2494	-11.975	-13.4509	-4.8821
attribute_135	-8.3143	-11.1061	-15.5958	-22.3273	9.1914
attribute_136	6.2885	6.1168	12.9472	-7.4384	9.9808
attribute_137	-2.4821	4.9893	45.5744	-27.68	-4.4057
attribute_138 attribute_139	-2.3404 9.8225	8.456 30.1289	6.8484 -2.1115	-0.9585 1.7643	2.1863 2.2326
attribute_140	4.7695	38.4419	47.6206	15.2725	10.8571
attribute_141	-14.3345	-5.6708	-27.2604	-10.5922	-15.9613
attribute_142	-0.3052	-9.9679	-46.334	-9.9976	-9.7807
attribute_143	-8.9732	15.3442	30.9657	7.2383	-8.1306
attribute_144	-5.1189	-11.3061	-41.2198	-2.3796	7.1037
attribute_145 attribute 146	9.8197 7.3886	-15.2698 -11.5739	-29.0751 5.2477	-3.0149 -12.9763	2.0277 3.1938
attribute 147	-18.3791	18.0315	-12.7042	3.8569	4.2967
attribute_148	12.4693	16.5328	-35.1628	12.0228	5.1796
attribute_149	5.0032	20.9996	22.1164	-0.0716	-5.7009
attribute_150	-0.7369	9.5997	17.3758	28.9187	3.9747
attribute_151	9.2299 3.1264	40.404 11.7034	25.9098 14.3796	25.4214 4.4386	-1.0151 2.2151
attribute_152 attribute_153	-11.9522	-24.3138	-6.8301	-0.5089	7.8753
attribute_154	-1.5895	-10.9183	22.4017	-2.8955	-3.8914
attribute_155	1.246	8.1337	19.2864	-0.0959	4.3807
attribute_156	4.8223	-22.5287	-0.011	10.0218	4.8755
attribute_157	20.4027	-10.5898	-6.9428	21.4316	-0.0672
attribute_158 attribute_159	5.8787 -7.1548	-8.2531 -8.409	11.0406 -12.4902	8.488 14.3694	2.8956 1.5938
attribute_159	9.1007	-13.6143	4.22	22.7892	-11.0216
attribute_161	5.8917	10.8154	15.8884	23.8277	-2.6091
attribute_162	-10.1131	-6.3779	-24.8894	-15.0869	-1.2531
attribute_163	11.703	2.691	-17.9976	13.1348	12.9183
attribute_164 attribute 165	9.694 -8.1071	4.7638 -9.9363	27.8571 -10.8239	-9.9086 2.9353	7.2897 10.0405
attribute_166	9.6206	32.5093	30.9571	31.0369	14.0654
attribute 167	-6.7135	14.2071	43.8216	14.3309	8.0062
attribute_168	-8.25	15.3661	9.8991	-6.432	-9.1016
attribute_169	12.3976	28.8235	-14.3273	9.3422	0.4769
attribute_170	2.3061	8.3323	14.5297	7.1829	-11.2554
attribute_171 attribute 172	-19.3035 -3.5112	-27.5639 -21.5879	-49.5052 -22.3622	3.9193 0.7878	4.1642 -4.6606
attribute_172 attribute 173	7.9402	-16.0914	-12.0241	13.6352	-2.5437
attribute_174	-17.2495	-17.2683	10.768	8.8871	7.5763
attribute_175	7.1889	3.752	26.6681	1.7394	15.5999
attribute_176	2.0412	12.679	41.0309	15.6588	20.7477
attribute_177	-14.0536	-6.5216 0.2176	-32.2576	-24.7827	-11.3127
attribute_178 attribute 179	5.8173 -2.0348	9.2176 2.8432	28.0455 22.7292	-0.2111 -16.095	-3.3282 0.3965
attribute_179	-21.8636	19.1197	-0.9484	-16.8386	-33.8759
attribute_180=2	-14.2402	-2.5213	-37.4454	-12.1535	-24.1864
attribute_180=3	26.417	-12.1569	28.0635	21.2125	42.4824
Intercept	-47.4205	-57.5649	-103.6201	-89.2902	22.2207
Odds Ratios					
	Class				
Variable	region1	region2	region3	region4	region5
	=======================================				

	0.0000	0.0156			0
attribute_0 attribute 1	0.0009 47.8601	0.0156 0	0 1337.8873	0 292241.2392	0.0057
attribute_1	0.0002	0	7.5308	232241.2332	0.0332
attribute_2	0.0002	0	0.5500	120.9876	0.3652
attribute_5	319.4357	0	0.0179	478966.493	0.3032
attribute_4	0.0202	9	4.334625983686682E10	50690.8384	9
attribute 6	0.0202	9	4.55402550500002210	9	4.973
attribute 7	0.1316	3.5243	9	1164.6945	82.8427
attribute 8	3073.0952	59476.7249	0	2578.7805	318973.489
attribute 9	0	7.492	0	693.0631	2.8579
attribute 10	253763.7722	0.0191	9	5.0130703217522586E13	16972.8707
attribute 11	0.0007	0.0001	0	0.0052	0
attribute 12	0	1.8181	1.9229225641510868E10	2488.3293	61337.1044
attribute 13	16273614.2873	73827.9135	6.0041859848136E20	69393.9579	22395.7765
attribute 14	29036.8548	10781922.6556	1.0235377405919663E23	3823717029.7146	5327.2756
attribute 15	0.0303	0.0131	0	0	0.0143
attribute_16	1664.1151	554.5755	0.0001	1.0765	0.0452
attribute_17	5201977.4293	59.0877	2733.9228	6.5118	1.1944
attribute_18	0.0002	0	38940470.6317	0.0001	0.0001
attribute_19	6843791.0802	169545.8995	1.2045600921939285E10	1.6380080527367036E16	1.3554794461933876E11
attribute_20	0.0005	0.0032	926739.2996	0.0005	0
attribute_21	0	3272132.9248	10088.1226	149806.5592	2029.08
attribute_22	239.5702	383.5985	2.6537	14.1607	0.0003
attribute_23	55.7062	0.4491	4.6175791925147086E13	443.3456	0
attribute_24	0.0872	0	0.0015	0	0.0017
attribute_25	1.8131790098414635E10	36423130.9091	2516539851.81	681.5969	72172.6477
attribute_26	87.8553	2482201.6424	7551262024.816	0	0.4602
attribute_27	0.398	9.2482	0	8418.446	7218.5628
attribute_28	17.4869	476974765.1978	9774740.8234	9.066282449658564E13	0.1926
attribute_29	1770.1011	2664271345.0241	1.4606977412791021E10	2018.3043	966.1217
attribute_30	0 0553	20216.5508	0 4604	0 4473	0.0003
attribute_31	0.8553	2089.3578	0.4684	0.4473	21.0171
attribute_32	0.2878	940.0933	515720.2168	0 2701	12975 0005
attribute_33	1700072 0055	200 5571	0 0001	0.3791	12875.0095
attribute_34	1789073.0855	280.5571	0.0001	4971868064.391	2073536.2459
attribute_35	2.1914 0.0002	0.0306 70.327	0.0364 0.6662	15.5389 0.0004	152.463 0.0727
attribute_36			2.0701819903327565E15		
attribute_37	147383.0314 0.0161	373779375.5176	0.0001	477506.7916	14.1411
attribute_38 attribute 39	0.0161	3332101.4837 3.887538227874289E11		512.1911 0.0174	0.0002 485.9495
attribute_39	176621969.9556	1.038051504801299E11	1476849.3207 517486491.7235	12152549.9291	1435438.0116
attribute_40	4741.3145	6.172839361678459E14	4.296693054842981E26	364.7283	17.3769
attribute_41	61.311	0.0015	15344435.2271	2190.2344	45.0153
attribute_42	211485797.6244	2.2859931432914634E12	364.8605	4.123513711509639E10	43.808
attribute_43	159.4261	808052.538	1607.6622	3.3548	0.0076
attribute 45	133.4201	2573.7223	0.0079	0.3348	2.8603
attribute 46	1059.8677	6.773570200741973E20	0.0075	15368.8597	3544793.0505
attribute 47	31.2517	1.9080101948391205E15	9	4.797	0.0001
attribute 48	0	0	0.0191	0	0
attribute 49	0.0024	9	2.7825276369795577E20	0.0141	9
attribute 50	0.4667	0.746	4507846.6398	0	0
attribute 51	0.0001	0	0	0	9
attribute_51 attribute 52	0.0001 14.812	0	0 0.0003	0 285.8305	0 0.0001
attribute_52	14.812	0	0.0003	285.8305	
attribute_52 attribute_53	14.812 1.8615				0.0001
attribute_52	14.812	0 0.0545	0.0003 1221921.9638	285.8305 163.7816 0	0.0001 0
attribute_52 attribute_53 attribute_54	14.812 1.8615 0.0107	0.0545 0.0545	0.0003 1221921.9638 0	285.8305 163.7816	0.0001 0 1.215
attribute_52 attribute_53 attribute_54 attribute_55	14.812 1.8615 0.0107 838257.979	0 0.0545 0 0.0405	0.0003 1221921.9638 0 1273931005.1467	285.8305 163.7816 0 16464.3858	0.0001 0 1.215 3429965.4239
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56	14.812 1.8615 0.0107 838257.979 326.5491	0 0.0545 0 0.0405 0	0.0003 1221921.9638 0 1273931005.1467 141272.629	285.8305 163.7816 0 16464.3858 0	0.0001 0 1.215 3429965.4239 0
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57	14.812 1.8615 0.0107 838257.979 326.5491 0	0 0.0545 0 0.0405 0	0.0003 1221921.9638 0 0 1273931005.1467 141272.629	285.8305 163.7816 0 16464.3858 0	0.0001 0 1.215 3429965.4239 0
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0	0 0.0545 0 0.0405 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187	285.8305 163.7816 0 16464.3858 0 0 0.0152 0	0.0001 0 1.215 3429965.4239 0 0 282.7537 0
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59	14.812 1.8615 0.0107 838257.979 326.5491 0	0 0.0545 0 0.0405 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441	285.8305 163.7816 0 16464.3858 0 0.0152 0 0.15578052474501005E10	0.0001 0 1.215 3429965.4239 0 0 282.7537
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0	0 0.0545 0 0.0405 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187	285.8305 163.7816 0 16464.3858 0 0 0.0152 0	0.0001 0 1.215 3429965.4239 0 0 282.7537 0
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_62 attribute_63	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.6584 1.2686	0.0545 0.0405 0.0405 0 0 0 0.0031 1.4924 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 5.2441 0.5187 1347496215.2832 0	285.8305 163.7816 0 16464.3858 0 0.0152 0 0.15678052474501005E10 0 0	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_63 attribute_63	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202	0 0.0545 0 0.0405 0 0.0405 0 0 0 0 0 0.0031 1.4924 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0	285.8305 163.7816 0 16464.3858 0 0.0152 0 1.5678052474501005E10 0 76902.9326	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_63 attribute_64 attribute_64 attribute_65	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936	0 0.0545 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1.4924 0 0 0 1555.817 0.0001	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0 0.0026 0	285.8305 163.7816 0 16464.3858 0 0.0152 0 1.5678052474501005E10 0 76902.9326 176.7657	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158 0.0002
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_65 attribute_65	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936	0 0.0545 0 0.0405 0 0 0.0405 0 0 0 0.0031 1.4924 0 0 1555.817 0.0001	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 5.2441 0.5187 1347496215.2832 0 0.0026 0.1.8878409448352085E12	285.8305 163.7816 0 16464.3858 0 0.0152 0 0 1.5678052474501005E10 0 76902.9326 176.7657	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0.7.8158 0.0002 0.0001
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_66 attribute_66 attribute_66 attribute_66 attribute_66 attribute_66	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249	0 0.0545 0 0.0405 0 0.0405 0 0 0 0 0 0.0031 1.4924 0 0 1555.817 0.0001 588.964 5.24512356875683E13	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0 0.0026 0 1.8878409448352085E12	285.8305 163.7816 0 16464.3858 0 0.0152 0 1.5678052474501005E10 0 76902.9326 176.7657 0	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158 0.0002 0.0001 30966.3985
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_65 attribute_66 attribute_66 attribute_67 attribute_67	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946	0 0.0545 0 0.0405 0 0.0405 0 0 0 0 0 0.0031 1.4924 0 0 1555.817 0.0001 588.964 5.24512356875683E13	0.0003 1221921.3638 0 1273931005.1467 141272.629 0 5.2441 0.5187 1347496215.2832 0 0.0026 0.1.8878409448352085E12 0 0	285.8305 163.7816 0 16464.3858 0 0.0152 0 1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158 0.0002 0.0001 30966.3985 0.0537
attribute_52 attribute_53 attribute_54 attribute_54 attribute_55 attribute_57 attribute_58 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_65 attribute_66 attribute_66 attribute_66 attribute_66 attribute_67 attribute_68 attribute_68	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092	0 0.0545 0 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0 0.0026 0.1.8878409448352085E12	285.8305 163.7816 0 16464.3858 0 0.0152 0 1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007	0.0001 0 1.215 3429965.4239 0 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158 0.0002 0.0001 30966.3985 0.0537 0.2073
attribute_52 attribute_53 attribute_54 attribute_55 attribute_55 attribute_57 attribute_57 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_65 attribute_66 attribute_66 attribute_66 attribute_67 attribute_68 attribute_68 attribute_69 attribute_69 attribute_69	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0	0 0.0545 0 0.0405 0 0.0405 0 0 0.0405 0 0 0 0.0031 1.4924 0 0 1555.817 0.0001 588.964 5.24512356875683E13 0.1249 26.7841 35490330.2037	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0.0026 0.0026 0.1.8878409448352085E12 0 0 0 567112.8385	285.8305 163.7816 0 16464.3858 0 0.0152 0 0.1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007	0.0001 0 1.215 3429965.4239 0 282.7537 0 0.0002 28078.3917 159.3882 0.0002 0.0001 30966.3985 0.0537 0.2073
attribute_52 attribute_53 attribute_54 attribute_54 attribute_55 attribute_56 attribute_57 attribute_59 attribute_60 attribute_61 attribute_62 attribute_63 attribute_64 attribute_65 attribute_66 attribute_66 attribute_66 attribute_67 attribute_68 attribute_69 attribute_70 attribute_71	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0 348066.8111 6124.576	0 0.0545 0 0.0405 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0 0.0026 0 1.8878409448352085E12 0 0 0 567112.8385 1250456.8145	285.8305 163.7816 0 16464.3858 0 0.0152 0 0 1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007 0 7.709	0.0001 0 1.215 3429965.4239 0 282.7537 0 0.0002 28078.3917 159.3882 0 7.8158 0.0002 0.0001 30966.3985 0.0537 0.2073 1923046.1193 157.1791
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attribute_52 attribute_53 attribute_54 attribute_55 attribute_55 attribute_57 attribute_57 attribute_59 attribute_60 attribute_61 attribute_63 attribute_63 attribute_64 attribute_65 attribute_66 attribute_67 attribute_67 attribute_67 attribute_70 attribute_71 attribute_71 attribute_72 attribute_73	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 4.8275 0 4.8275 0.9584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0 348066.8111 6124.576 0.0002 12236200.8628	0 0.0545 0 0.0405 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0.0026 0.0026 0 1.8878409448352085E12 0 0 0 567112.8385 1250456.8145 0.5669 0.0629	285.8305 163.7816 0 16464.3858 0 0.0152 0 0.1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007 7.709 0	0.0001 0 1.215 3429965.4239 0 282.7537 0 0.0002 28078.3917 159.3882 0.78158 0.0002 0.0001 30966.3985 0.0537 0.2073 1923046.1193 157.1791 0.0028 0.01471
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_57 attribute_59 attribute_60 attribute_61 attribute_63 attribute_63 attribute_65 attribute_65 attribute_66 attribute_66 attribute_66 attribute_67 attribute_67 attribute_70 attribute_71 attribute_72 attribute_73 attribute_74	14.812 1.8615 0.0107 838257.979 326.5491 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0 348066.8111 6124.576 0.0002	0 0.0545 0 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 5.2441 0.5187 1347496215.2832 0 0.0026 0 1.8878409448352085E12 0 0 567112.8885 1250456.8145 0.5669	285.8305 163.7816 0 16464.3858 0 0.0152 0 0 1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007 0 7.7099	0.0001 0 1.215 3429965.4239 0 0 282.7537 0.0002 28078.3917 159.3882 0 7.8158 0.0002 0.0001 30966.3985 0.0537 0.2073 1923046.1193 157.1791 0.0028
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attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_57 attribute_59 attribute_60 attribute_61 attribute_61 attribute_63 attribute_63 attribute_64 attribute_65 attribute_66 attribute_67 attribute_68 attribute_70 attribute_70 attribute_71 attribute_72 attribute_73 attribute_73 attribute_75 attribute_75 attribute_75 attribute_75 attribute_78 attribute_80 attribute_81 attribute_83 attribute_83 attribute_83 attribute_84 attribute_85 attribute_85 attribute_84 attribute_85 attribute_86 attribute_87 attribute_81 attribute_82 attribute_83 attribute_84 attribute_85 attribute_87 attribute_91 attribute_91 attribute_92 attribute_93 attribute_94 attribute_96 attribute_96 attribute_96 attribute_96	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 0.8275 0 41057.8676 0.0584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0 348066.8111 6124.5576 0.0002 12236200.8628 6935.0876 0.0024 221822.8891 7576422.5612 79.9274 0.0328 6263157.5642 343.3516 0.0237 1628765.1701 9.4709 2213.9808 244648705.592 0 266732.3793 0.0832 0.0006 0.2879 0.0184	0 0.0545 0 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0 0.0026 0 1.8878409448352085E12 0 0 567112.8385 1250456.8145 0.6569 0.0629 5.409950757772266E12 6.237971818455657510 11.4582 537391.0641 1.4924 615472309.1857 5.32832261833906312 143835430.3963 8.4285110755430973E18 9.8271 0 2.8306 0 4.488475391429895E37 0 0 8.692303185585191E26 0 4960289.6943 13108085.704	285.8305 163.7816 0 16464.3858 0 0 0.0152 0 0 1.5678052474501005E10 0 76902.9326 176.7657 0 13310421.8052 0.0007 0.7.709 0.0001 0.019 0.019 1.0874001045130848E10 3.949603956575446E18 7.135081194653194E13 0.2.4742207962077933E11 0 3.9049018475445284E36 0 0 1.0158070638664662E40 1176492.1345 0 143533630.859 0.0215 254.4623 0 0 0.2708	0.0001 0 1.215 3429965.4239 0 282.7537 0 0.0002 28078.3917 159.3882 0.0001 30966.3985 0.0537 0.2073 1923046.1193 157.1791 0.0028 0.1471 0.0011 0.0011 1.4505 3756156.958 0.0029 37856367.8066 13931117.6475 0.5.210206448875532E14 0 0 6.484667292455247E23 0 0 1016368.7495 0.0003 0 0 21793.9147
attribute_52 attribute_53 attribute_54 attribute_55 attribute_56 attribute_57 attribute_57 attribute_59 attribute_60 attribute_61 attribute_61 attribute_63 attribute_63 attribute_64 attribute_66 attribute_66 attribute_67 attribute_70 attribute_71 attribute_71 attribute_72 attribute_73 attribute_73 attribute_74 attribute_75 attribute_75 attribute_76 attribute_78 attribute_80 attribute_81 attribute_83 attribute_83 attribute_84 attribute_85 attribute_85 attribute_85 attribute_86 attribute_87 attribute_81 attribute_85 attribute_88 attribute_86 attribute_87 attribute_88 attribute_88 attribute_88 attribute_88 attribute_90 attribute_91 attribute_93 attribute_93 attribute_94 attribute_95 attribute_95 attribute_95	14.812 1.8615 0.0107 838257.979 326.5491 0.8275 0 0.8275 0 41057.8676 0.9584 1.2686 20641.1202 32.2936 1.2249 20910568.9946 8301.7092 0 348066.8111 6124.576 0.0002 12236200.8628 6935.0876 0.0024 22132.8891 7576422.5612 0 2886.6218 79.9274 0.0328 6263157.5642 343.3516 0.0237 1628765.1701 9.4709 0 2213.9808 244648705.592 0.66732.3793 0.8832 0.0006 0.2879 0.0184	0 0.0545 0 0.0405 0 0.0405 0 0 0.0405 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0003 1221921.9638 0 1273931005.1467 141272.629 0 0 5.2441 0.5187 1347496215.2832 0.0026 0 1.8878409448352085E12 0 0.0026 1.8878409448352085E12 0 0.0026 0.0026 1.8878409448352085E12 0 0.0026 1.8878409448352085E12 1250456.8145 0.5669 0.6629 5.409950757772266E12 6.237971818455657E10 11.4582 537391.6641 1.4924 615472309.1857 5.328322618339063E12 143835430.3963 8.4285110755430973E18 9.8271 0 2.8306 0 4.488475391429895E37 0 8.692303185585191E26 4960289.6943 13108085.704	285.8305 163.7816 0 16464.3858 0 0.0152 0 0.0152 0 0 1.5678052474501005E10 0 0 76902.9326 176.7657 0 13310421.8052 0.0007 0 0.0001 0 0.0001 0 0.0019 1.0874001045130848E10 3.949603956575446E18 7.135081194653194E13 0 2.4742207962077933E11 0 3.9049018475445284E36 0 0 1.0158070638664662E40 1176492.1345 0 143533630.859 0.0215 254.4623	0.0001 0 1.215 3429965.4239 0 282.7537 0 0.0002 28078.3917 159.3882 0.0002 0.0001 30966.3985 0.0537 0.2073 1923046.1193 157.1791 0.0028 0.1471 0.0011 0.0001 1.4505 3756156.958 0.0029 37856367.8066 13931117.6475 0 5.210206448875532E14 0 0 6.484667292455247E23 0 1016368.7495 0.0003

attribute_99	0	1.4206	1534.0633	0.0032	0.1919
attribute_100	52.9332	0	0 0003	3.482678484372827E10	0 0157
attribute_101 attribute 102	0.2277 0.0032	0	0.0003	203141074.0119	0.0157 0.0545
attribute_103	1873345.2105	0	0	0.0001	78.4737
attribute 104	0.1249	9692.6015	0	0.0001	8.0601
attribute_105	0.0014	753.1164	0	2.6091	3.6936
attribute_106	23.0106	50.1353	54.2203	37720.5619	547.1682
attribute_107	1.4574	0	0	0.3719	0
attribute_108	0.0002	0.053	0.0573	0	100.1546
attribute_109	152380742.4516	296.3205	0.1563	0.0358	4.755
attribute_110	0.2219	16944954.4908	9.330465300697972E11	0.0004	0.3436
attribute_111	914 2920	2016 6112	0	0.0154 5826959.9136	0.002
attribute_112 attribute 113	814.3839 14.0042	2916.6113 1438397530.8071	0.0002	308.1015	283.5057 0.0001
attribute_113	14.0042	1436397330.6071	0.0002	0	0.0001
attribute 115	788.7596	0.0087	0	0.0212	0.2278
attribute 116	33.4592	0.0039	0	0.0029	397.1061
attribute 117	0	0	0.0015	0.0039	0
attribute_118	22.1628	0.012	0	0	0.0173
attribute_119	0.0842	0.2529	920.037	0.0025	0.0112
attribute_120	0	0	0	0	0.0671
attribute_121	1790416.9721	0	0	1.7911	0.5849
attribute_122	0.0512	104422 050	0.0258	2 2210042074572064511	2 1642
attribute_123 attribute 124	2.7675 3293360634.265	104433.858 0.0001	49.3012 12262147.6343	2.3318842974572864E11 1.5230221418726324E11	3.1643 29.9325
attribute_125	208963.5388	5512.1409	1.8264674076234544E14	141354061.2102	224223.0573
attribute 126	0.0572	9312.1409	0	47.3884	0.1546
attribute 127	409494008.1885	0.1907	0.7074	0.9162	0.0182
attribute_128	408.3411	0	14103.661	122716435.1465	2.0365
attribute_129	0.0087	0	0	0	44.3617
attribute_130	0.0209	0	0	0	4.7217
attribute_131	0.3034	0.0001	0	0	0
attribute_132	0	0	0.0007	901.4965	36.9695
attribute_133	1971.988	0	0	0	0.0001
attribute_134 attribute 135	0.0294 0.0002	0	0	0	0.0076 9812.6012
attribute_135	538.3672	453.395	419647.3537	0.0006	21608.2572
attribute 137	0.0836	146.8395	6.204607217210332E19	0.0000	0.0122
attribute 138	0.0963	4703.3156	942.3764	0.3835	8.902
attribute 139	18443.4398	1.2156357808219645E13	0.1211	5.8375	9.3238
attribute_140	117.8546	4.9558428038651792E16	4.8015251348184655E20	4292998.9115	51900.2595
attribute_141	0	0.0034	0	0	0
attribute_142	0.737	0	0	0	0.0001
attribute_143	0.0001	4612202.3163	2.8068765921954812E13	1391.763	0.0003
attribute_144	0.006	0	0	0.0926	1216.5124
attribute_145	18393.4512	0	100 1211	0.0491 0	7.5964
attribute_146 attribute 147	1617.3626 0	67759605.8791	190.1311 0	47.3174	24.38 73.4541
attribute 148	260224.8762	15139155.5609	0	166511.743	177.6029
attribute 149	148.8868	1318321283.0869	4027570031.148	0.9309	0.0033
attribute 150	0.4786	14759.8275	35172843.7042	3.6242826542027896E12	53.232
attribute_151	10197.7276	3.5254344436007546E17	1.7883915466400647E11	1.0974763227172354E11	0.3624
attribute_152	22.7908	120979.8484	1757933.7567	84.6539	9.1626
attribute_153	0	0	0.0011	0.6011	2631.3801
attribute_154	0.204	0	5357267062.6143	0.0553	0.0204
attribute_155	3.4765	3407.2542	237664782.9421	0.9085	79.8961
attribute_156	124.2557	0	0.9891 0.001	22512.8169 2030673527.8531	131.0344
attribute_157 attribute 158	725721098.9061 357.3488	0.0003	62353.5767	4856.3595	0.935 18.0938
attribute_158	0.0008	0.0002	02333.3707	1739987.8148	4.9225
attribute 160	8961.2364	0	68.0356	7892882258.9976	0
attribute_161	362.0118	49779.825	7948044.4002	2.229766962609532E10	0.0736
attribute_162	0	0.0017	0	0	0.2856
attribute_163	120929.9176	14.7469	0	506247.0213	407704.9553
attribute_164	16219.839	117.1945	1.25370630180274E12	0	1465.0875
attribute_165	0.0003	0	0	18.8268	22936.3242
attribute_166	15072.7075	1.3140827914201778E14 1479381.0261	2.783034950846589E13 1.0751751806181186E19	3.0140474155492992E13 1674285.9657	1283873.3452 2999.3707
attribute_167 attribute 168	0.0012 0.0003	4714057.9214	19911.7022	0.0016	0.0001
attribute 169	242219.7802	3.295228090268966E12	0	11409.3054	1.611
attribute 170	10.0354	4155.8533	2042597.2131	1316.7261	0
attribute_171	0	0	0	50.3659	64.3435
attribute_172	0.0299	0	0	2.1986	0.0095
attribute_173	2808.0334	0	0	835044.3975	0.0786
attribute_174	0	0	47476.9558	7238.1533	1951.3952
attribute_175	1324.6717	42.6077	3.8179080810054755E11	5.694	5955698.1725
attribute_176	7.7001	320926.8019	6.5989312941865165E17	6317260.2238	1024694838.231
attribute_177	336.0643	0.0015	1 5125271700046007512	0 0007	0 0350
attribute_178	336.0642 0.1307	10072.4442 17.171	1.5135271788946907E12 7433073250.409	0.8097 0	0.0359 1.4867
attribute_179 attribute 180=1	0.1307	201182933.7748	7433073250.409	0	1.4867
attribute_180=1	0	0.0804	0.3874	0	0
attribute 180=3	2.9700597469829205E11	0.0004	1.5411189861163884E12		2.8174253889907507E18
		ŭ			

Time taken to build model: 40.99 seconds



AdaBoost

Start System Time is 1493354549237

Correctly Classified Instances	932	78.5835 %
Incorrectly Classified Instances	254	21.4165 %
Kappa statistic	0.6447	
Mean absolute error	0.2767	
Root mean squared error	0.3345	
Relative absolute error	67.3369 %	
Root relative squared error	73.4911 %	
Total Number of Instances	1186	

=== Confusion Matrix ===

а	b	С	< classified as
260	31	12	a = 1
28	129	123	b = 2
42	18	543	c = 3

End System Time is 1493354550433 Accuracy of AdaBoostM1: 78.58%

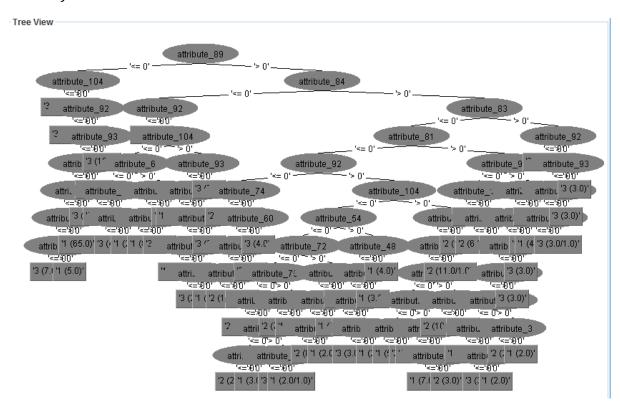
Start System Time for Decision Tree is 1493354556426

Correctly Classified Instances	1097	92.4958 %
Incorrectly Classified Instances	89	7.5042 %
Kappa statistic	0.879	
Mean absolute error	0.0589	
Root mean squared error	0.2155	
Relative absolute error	14.3287 %	

Root relative squared error Total Number of Instances 47.3462 %

=== Confusion Matrix ===

End System Time for Decision Tree is 1493354557935 Accuracy of Decision Tree : 85.54%



Start System Time for SVM is 1493354562410

Polynomial Kernel, Degree - 5

J			
Correctly Classified Instances	603	50.8432 %	
Incorrectly Classified Instances	583	49.1568 %	
Kappa statistic	0		
Mean absolute error	0.3277		
Root mean squared error	0.5725		
Relative absolute error	79.7519 %		
Root relative squared error	125.787 %		
Total Number of Instances	1186		

```
0 0 280 | b = 2
0 0 603 | c = 3
```

End System Time for SVM is 1493355065605

RBF

Correctly Classified Instances	789	66.5261 %
Incorrectly Classified Instances	397	33.4739 %
Kappa statistic	0.3719	
Mean absolute error	0.2232	
Root mean squared error	0.4724	
Relative absolute error	54.3079 %	
Root relative squared error	103.7999 %	
Total Number of Instances	1186	

=== Confusion Matrix ===

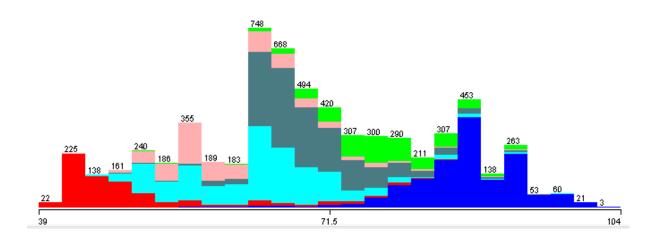
а	b	C	< classified	as
83	0	220	a = 1	
0	103	177	b = 2	
0	0	603	l c = 3	

End System Time for SVM is 1493355366420

Landsat

36 Dimensions7 Classes

Training : 4435 (,6892), Test : 2000)



Logistic Regression with ridge parameter of 1.0E-8 Coefficients...

	Class				
Variable	region1	region2	region3	region4	region5
attr0	0.4517	0.0858	0.3742	0.1702	0.0612
attr1	0.2852	0.2989	0.0286	-0.0184	-0.0722
attr2	0.0847	0.0687	-0.2272	0.0434	0.1239
attr3	0.1769	0.3595	0.7115	0.0073	0.0589

attr4	0.648	0.1486	-0.6275	0.0231	0.0793
	0.3824				0.0088
attr5		0.308	-0.0287	0.0578	
attr6	0.1684	0.1531	0.5029	0.0852	0.1706
attr7	0.1014	0.368	-0.3247	0.1145	0.0683
attr8	0.0166	0.1644	-0.516	0.0429	-0.0387
attr9	0.0919	0.2776	0.122	-0.0424	-0.0879
attr10	0.4698	0.2238	0.3775	0.1064	0.1253
attr11	0.0443	-0.1345	0.2329	0.0031	0.1033
attr12	0.2059	-0.0864	-0.5877	0.0107	-0.0914
attr13	0.1306	-0.0965	0.1133	0.1119	0.0225
attr14	0.3273	0.3246	-0.3648	0.0302	0.0541
attr15	0.1453	0.3124	-0.0651	0.0193	-0.0381
attr16		-0.2928			
	0.3601		0.0056	0.0579	-0.034
attr17	0.1478	0.2986	-0.1527	0.0324	0.0277
attr18	0.2546	0.4274	0.3784	0.1029	0.1545
attr19	0.4317	0.3332	0.5055	0.1048	-0.0201
		-0.2327		0.0578	
attr20	0.2347		0.0725		-0.0866
attr21	0.2313	0.0848	-0.6187	-0.0102	0.0197
attr22	0.3757	0.416	0.0857	0.0607	0.1015
attr23	0.1227	0.0647	-0.1188	0.068	0.0197
attr24	0.3239	0.4142	0.3197	0.0751	0.1075
attr25	0.1491	0.1995	-0.452	0.0047	-0.048
attr26	0.3072	0.3682	0.8256	0.0194	0.109
attr27	-0.0067	-0.1582		0.0925	0.1096
			-0.4189		
attr28	0.336	-0.269	-0.4066	0.0748	-0.0013
attr29	0.1275	0.1434	-0.5398	0.0095	-0.0271
attr30	0.2821	0.2824	0.1213	0.059	0.0666
attr31	0.1922	0.0296	0.1518	0.0097	0.0983
attr32	0.1713	0.0372	-0.1183	0.0675	-0.1449
attr33	0.1239		-0.2692	0.0617	0.0655
		0.1423			
attr34	0.4743	0.2332	-0.142	0.0846	0.204
attr35	0.3315	0.7432	-0.1245	0.0618	-0.0189
attr36=3	2.8423	12.308	48.6527	-1.6064	1.9173
attr36=2	24.4748	0.6182	-2.8159	15.0932	15.7811
attr36=1	-8.9826	5.2466	3.861	-2.8392	-1.7418
attr36=7	0.3169	-5.0321	7.5522	-1.8818	-4.1384
attr36=5	-14.957	6.7524	-114.2416	-2.1673	-3.4625
attr36=4	2.0621	-32.1011	14.6916	-1.5535	-5.2115
Intercept	-772.2873	-572.5663	-5.8654	-138.5382	-102.2002
Intercept	-//2.20/3	-372.3003	-3.8034	-130.3302	-102.2002
	Class				negion5
Variable	region1		region3		
attr0 attr1	1.5709 1.33	1.0896 1.3484	1.4539 1.029	1.1855 0.9818	1.0632 0.9303
attr0 attr1 attr2	1.5709 1.33 1.0884	1.0896 1.3484 1.0711	1.4539 1.029 0.7968	1.1855 0.9818 1.0443	1.0632 0.9303 1.1319
attr0 attr1 attr2 attr3	1.5709 1.33 1.0884 1.1935	1.0896 1.3484 1.0711 1.4327	1.4539 1.029 0.7968 2.037	1.1855 0.9818 1.0443 1.0073	1.0632 0.9303 1.1319 1.0607
attr0 attr1 attr2 attr3 attr4	1.5709 1.33 1.0884 1.1935 1.9116	1.0896 1.3484 1.0711 1.4327 1.1602	1.4539 1.029 0.7968 2.037 0.5339	1.1855 0.9818 1.0443 1.0073 1.0234	1.0632 0.9303 1.1319 1.0607 1.0826
attr0 attr1 attr2 attr3	1.5709 1.33 1.0884 1.1935	1.0896 1.3484 1.0711 1.4327	1.4539 1.029 0.7968 2.037	1.1855 0.9818 1.0443 1.0073	1.0632 0.9303 1.1319 1.0607
attr0 attr1 attr2 attr3 attr4 attr5	1.5709 1.33 1.0884 1.1935 1.9116	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607	1.4539 1.029 0.7968 2.037 0.5339 0.9717	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088
attr0 attr1 attr2 attr3 attr4 attr5 attr6	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595	1.0632 0.9303 1.1319 1.0607 1.0828 1.186
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214	1.0632 0.9303 1.1319 1.0607 1.0826 1.0988 1.186
attr0 attr1 attr2 attr3 attr4 attr5 attr6	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214	1.0632 0.9303 1.1319 1.0607 1.0826 1.0988 1.186
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787	1.4539 1.629 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.04439 0.9585	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr9	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298	1.1855 0.9818 1.0443 1.0073 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr9	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298	1.1855 0.9818 1.0443 1.0073 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr1 attr12 attr11	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173	1.4539 1.629 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556	1.1855 0.9818 1.0443 1.0073 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr112 attr113 attr14	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.1396	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.14449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr112 attr113 attr14	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.1396	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.14449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr11 attr12 attr15 attr16 attr17	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627 0.9666
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr14 attr15 attr16 attr17 attr18	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1564	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.0333 1.1084	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627 0.9666 1.0281
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr11 attr12 attr13 attr14 attr15 attr14 attr15 attr15 attr15 attr16 attr17 attr18 attr17	1.5709 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348	1.4539 1.429 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.0333 1.1084 1.1104	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr14 attr15 attr16 attr17 attr18	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1564	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.0333 1.1084	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627 0.9666 1.0281
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr19 attr10 attr11 attr110 a	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592 1.2899 1.5399	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 0.9585 1.11214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0696 1.033 1.1084 1.1104 1.0595	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr14 attr15 attr16 attr17 attr18 attr10 attr17 attr18 attr10 attr119 attr110 a	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.1396 1.1396 1.4335 1.1564 1.4335 1.1592 1.2899 1.5399 1.2899	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0695	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr17 attr18 attr17 attr18 attr20 attr21 attr2	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1599 1.2899 1.5399 1.2695 1.2693	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885	1.4539 1.4639 1.629 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578 1.4579	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1044 1.0595 0.9899	1.0632 0.9303 1.1319 1.0607 1.0826 1.0888 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9626 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1068
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr14 attr15 attr16 attr17 attr18 attr10 attr17 attr18 attr10 attr119 attr110 a	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0167 1.0963 1.5996 1.0453 1.2286 1.1396 1.1396 1.1396 1.4335 1.1564 1.4335 1.1592 1.2899 1.5399 1.2899	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0695	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171
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attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr16 attr17 attr18 attr16 attr17 attr18 attr19 attr20 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr30 attr31 attr31 attr34 attr35 attr35 attr36=3	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4355 1.1592 1.2899 1.5399 1.2645 1.1607 1.3656 1.1305 1.3656 1.1305 1.3596 1.3599 1.2645 1.1607 1.3596 1.3826 1.1607 1.3596 1.3826 1.1607 1.3596 1.3934 1.3994 1.1369 1.3191 1.1869 1.3191 1.1869 1.3311	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3554 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2626 2.1027	1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.00566 0.8584 1.4599 1.6578 1.0752 0.5386 1.0894 0.8879 1.3767 0.6364 2.2833 0.65577 0.6659 0.5829 1.129 1.164 0.8884	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.08899 1.1214 1.0439 0.9585 1.11122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.0333 1.1084 1.1104 1.0595 0.9899 1.0626 1.0704 1.0786 1.0948 1.0949 1.0626 1.0969 1.0766 1.0969 1.0766 1.0969 1.0767 1.0096 1.0698 1.0097 1.0699 1.0637 1.0883 1.0883 1.0637 1.0883 1.0637	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0256 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1068 1.0199 1.1135 0.9532 1.1152 1.1158 0.9533 1.1158
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr19 attr20 attr21 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr30 attr31 attr32 attr31 attr32 attr33 attr34 attr35	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4355 1.1592 1.2899 1.5399 1.2645 1.2603 1.456 1.1305 1.3826 1.1305 1.3826 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.136 1.3259 1.2119 1.1869 1.1319	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.0659	1,4539 1,4539 1,029 9,7968 2,037 9,5339 9,9717 1,6535 9,7227 9,5969 1,1298 1,4586 1,2623 9,5556 1,1199 9,6943 1,937 1,0056 9,8584 1,4599 1,6578 1,0752 9,5386 1,8894 9,8879 1,3767 9,6364 2,2833 9,6577 9,6659 9,5829 1,129 1,164 9,8884 0,764 9,8884	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0595 0.9899 1.0626 1.0704 1.078 1.0048 1.0196 1.0976 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0099	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0556 0.9627 0.9666 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1135 0.9532 1.1152 1.1152 1.1152 1.1152 1.1153 0.9987 0.9987 0.9987 0.9983 0.9813
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr19 attr21 attr22 attr23 attr24 attr25 attr27 attr28 attr27 attr28 attr27 attr28 attr27 attr28 attr27 attr28 attr31 attr31 attr32 attr33 attr34 attr35 attr36=3 attr36=3	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592 1.2899 1.5399 1.2645 1.2693 1.456 1.1305 1.3826 1.1305 1.3826 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.136 1.3259 1.2119 1.1869 1.18259 1.2119 1.1869 1.3359 1.2119 1.1869 1.3359 1.2119 1.1869 1.3359 1.2119 1.1869 1.3351 1.71551	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2626 2.1027 221470.1139	1.4539 1.4639 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578 1.6752 0.5386 1.8894 0.8879 1.3767 0.6364 2.2833 0.6577 0.6659 0.5829 1.129 1.164 0.8884 0.764 0.8883	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0595 0.9899 1.0626 1.0706 1.076 1.0096 1.076 1.0096 1.0776 1.0096 1.0776 1.0096 1.0776 1.00997 1.06698 1.0097 1.06698 1.0097 1.06699 1.06776 1.00969 1.0776 1.00969 1.0776 1.00969 1.0776 1.00997 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097 1.06698 1.0097	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9626 1.0227 1.0556 0.9627 1.0556 0.9627 1.0556 1.0281 1.1671 1.0199 1.1355 1.1088 1.1099 1.1355 1.0688 1.0199 1.1135 1.0983 1.1152 1.1158 1.158 1.1598 1.1158 1.1671 1.158 1.1688 1.1033 1.0688 1.1033 1.0688 1.1033 1.0688 1.1033 1.0688 1.10677 1.2263 1.9813 1.0677 1.2263 1.9813 1.0677 1.2263 1.9813 1.0677 1.2263 1.9813 1.0677 1.2263 1.9813 1.0826
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr19 attr20 attr21 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr30 attr31 attr32 attr33 attr34 attr35 attr36=3 attr36=3 attr36=1	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.435 1.1592 1.2899 1.2645 1.2603 1.456 1.1305 1.3826 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.136 1.3259 1.219 1.1869 1.1319 1.1869 1.1319 1.1869 1.1319 1.1869 1.1393 1.4558595710485012E10 0.0001	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885 1.5139 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2666 2.1227 221470.1139 1.8856	1,4539 1,4539 1,029 9,7968 2,037 9,5339 9,9717 1,6535 0,7227 9,5969 1,1298 1,4586 1,2623 9,5556 1,1199 9,6943 1,937 1,0056 9,8584 1,4599 1,6578 1,0752 9,5386 1,8894 9,8879 1,3767 9,6659 9,5829 1,129 1,164 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 0.9585 1.11214 1.0439 0.9585 1.11122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0595 0.9899 1.0626 1.0704 1.078 1.0048 1.0196 1.0976 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0099 1.0637 1.0083 1.0083 1.00837 1.0083	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1135 0.9532 1.1152 1.1158 0.9987 0.9933 1.0688 1.10633 0.8651 1.0677 1.2263 0.9813 6.8026 7139458.066
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr16 attr17 attr18 attr16 attr17 attr18 attr19 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr24 attr25 attr28 attr28 attr29 attr31 attr34 attr34 attr35 attr36=3 attr36=1 attr36=7	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592 1.2899 1.5399 1.5399 1.2645 1.2603 1.456 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.1369 1.3596 0.9934 1.3991 1.1869 1.1319 1.6069 1.3191 1.1869 1.1319 1.6069 1.3931 17.1551 4.258595710485012E10 0.0001 1.3729	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3554 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2626 2.1027 221470.1139 1.8556 189.9141	1.4539 1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578 1.6752 0.5386 1.0894 0.8879 1.3767 0.6364 2.2833 0.6577 0.66599 1.129 1.164 0.8884 0.764 0.8884 0.764 0.8888 0.764 0.88888 1.347785566752113E21 0.6598	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 0.9585 0.9899 1.0626 1.0706 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0767 1.0883 1.0883 1.08637 1.0883 1.0637 1.0883 1.0637 0.2006 3588170.1962	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1088 1.0199 1.1135 0.9532 1.1152 1.1158 0.9987 0.9733 1.0688 1.1033 0.8651 1.0677 1.2263 0.9813 6.8026 7139458.066 0.1752 0.0159
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr19 attr20 attr21 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr30 attr31 attr32 attr33 attr34 attr35 attr36=3 attr36=3 attr36=1	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.435 1.1592 1.2899 1.2645 1.2603 1.456 1.1305 1.3826 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.136 1.3259 1.219 1.1869 1.1319 1.1869 1.1319 1.1869 1.1319 1.1869 1.1393 1.4558595710485012E10 0.0001	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885 1.5139 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2666 2.1227 221470.1139 1.8856	1,4539 1,4539 1,029 9,7968 2,037 9,5339 9,9717 1,6535 0,7227 9,5969 1,1298 1,4586 1,2623 9,5556 1,1199 9,6943 1,937 1,0056 9,8584 1,4599 1,6578 1,0752 9,5386 1,8894 9,8879 1,3767 9,6659 9,5829 1,129 1,164 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764 9,8884 0,764	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 0.9585 1.11214 1.0439 0.9585 1.11122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.033 1.1084 1.1104 1.0595 0.9899 1.0626 1.0704 1.078 1.0048 1.0196 1.0976 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0096 1.0097 1.0099 1.0637 1.0083 1.0083 1.00837 1.0083	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1135 0.9532 1.1152 1.1158 0.9987 0.9933 1.0688 1.10633 0.8651 1.0677 1.2263 0.9813 6.8026 7139458.066
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr10 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr15 attr16 attr17 attr18 attr19 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr29 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr27 attr28 attr36 attr31 attr32 attr34 attr35 attr36=1 attr36=1 attr36=7 attr36=5	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592 1.2899 1.5399 1.2645 1.2693 1.456 1.1305 1.3826 1.11305 1.3826 1.11607 1.3596 0.9934 1.3994 1.136 1.3259 1.2119 1.1869 1.3259 1.2119 1.1869 1.3393 1.71551 4.258595710485012E10 0.0001 1.3729 0	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3554 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2626 2.1027 221470.1139 1.8556 189.9141	1.4539 1.4639 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578 1.6752 0.5386 1.0894 0.8879 1.3767 0.6364 2.2833 0.6577 0.6659 0.8889 1.347785566752113221 0.0598 47.5107 1904.915	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 1.0596 1.0596 1.0704 1.1084 1.1104 1.1095 1.0595 0.9899 1.0626 1.0704 1.078 1.0048 1.0096 1.0766 1.0766 1.0766 1.0969 1.0776 1.0069 1.0776 1.0096 1.0699 1.0637 1.0699 1.0637 1.0883 1.0883 1.0837 1.0883 1.0837 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637 1.0883 1.0637	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 1.135 0.9127 1.0199 1.1068 1.0199 1.1135 0.9532 1.1152 1.1158 0.9987 0.9733 1.0688 1.0033 0.8651 1.06677 1.2263 0.9813 6.8026 7139458.066 0.1752 0.0159 0.0314
attr0 attr1 attr2 attr3 attr4 attr5 attr6 attr7 attr8 attr9 attr11 attr12 attr11 attr12 attr11 attr12 attr13 attr14 attr15 attr16 attr17 attr18 attr16 attr17 attr18 attr16 attr17 attr18 attr19 attr21 attr22 attr23 attr24 attr25 attr26 attr27 attr28 attr24 attr25 attr28 attr28 attr29 attr31 attr34 attr34 attr35 attr36=3 attr36=1 attr36=7	1.5769 1.33 1.0884 1.1935 1.9116 1.4658 1.1834 1.1067 1.0963 1.5996 1.0453 1.2286 1.1396 1.3872 1.1564 1.4335 1.1592 1.2899 1.5399 1.5399 1.2645 1.2603 1.456 1.1305 1.3826 1.1607 1.3596 0.9934 1.3994 1.1369 1.3596 0.9934 1.3991 1.1869 1.1319 1.6069 1.3191 1.1869 1.1319 1.6069 1.3931 17.1551 4.258595710485012E10 0.0001 1.3729	1.0896 1.3484 1.0711 1.4327 1.1602 1.3607 1.1655 1.4449 1.1787 1.32 1.2508 0.8741 0.9173 0.908 1.3834 1.3668 0.7462 1.348 1.5333 1.3954 0.7924 1.0885 1.5159 1.0669 1.5132 1.2207 1.4451 0.8537 0.7641 1.1542 1.3263 1.0301 1.0379 1.1529 1.2626 2.1027 221470.1139 1.8556 189.9141 0.0065	1.4539 1.4539 1.029 0.7968 2.037 0.5339 0.9717 1.6535 0.7227 0.5969 1.1298 1.4586 1.2623 0.5556 1.1199 0.6943 0.937 1.0056 0.8584 1.4599 1.6578 1.6752 0.5386 1.0894 0.8879 1.3767 0.6364 2.2833 0.6577 0.66599 1.129 1.164 0.8884 0.764 0.8884 0.764 0.8888 0.764 0.88888 1.347785566752113E21 0.6598	1.1855 0.9818 1.0443 1.0073 1.0234 1.0595 1.0889 1.1214 1.0439 0.9585 1.1122 1.0031 1.0108 1.1184 1.0306 1.0195 0.9585 0.9899 1.0626 1.0706 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0766 1.0969 1.0767 1.0883 1.0883 1.08637 1.0883 1.0637 1.0883 1.0637 0.2006 3588170.1962	1.0632 0.9303 1.1319 1.0607 1.0826 1.0088 1.186 1.0707 0.9621 0.9159 1.1335 1.1088 0.9127 1.0227 1.0556 0.9627 0.9666 1.0281 1.1671 0.9801 0.9171 1.0199 1.1088 1.0199 1.1135 0.9532 1.1152 1.1158 0.9987 0.9733 1.0688 1.1033 0.8651 1.0677 1.2263 0.9813 6.8026 7139458.066 0.1752 0.0159

Time taken to build model: 17.52 seconds

Correctly Classified Instances : 1906.0

InCorrectly Classified Instances : 94.0

Standard Deviation : 0.10966470768413135

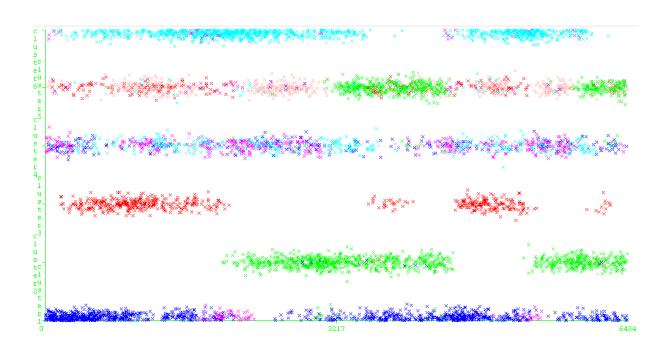
Correctly Classified Instances	1906	95.3	%
Incorrectly Classified Instances	94	4.7	%
Kappa statistic	0.943		
Mean absolute error	0.0176		
Root mean squared error	0.1097		
Relative absolute error	6.4129 %		
Root relative squared error	29.5779 %		
Total Number of Instances	2000		

=== Confusion Matrix ===

```
e f <-- classified as
361
               0 0 |
                       a = region1
 2 301
        0 1 4 0 |
                        b = region2
                        c = region3
     0 176 0
              2
                   0 |
                        d = region4
        0 352 10 10 |
 6
            5 402 16
                        e = region5
 0
     6
        3
            9 11 314
                       f = region6
 0
```

End System Time for our L3M is 1493355558947

Overall Accuracy of our L3M Classification : 95.30%



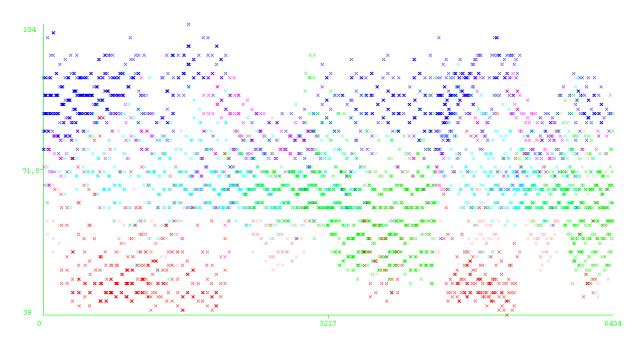
Start System Time is 1493355800885

Correctly Classified Instances 835 41.75 9 Incorrectly Classified Instances 1165 58.25 9

```
Kappa statistic 0.2518
Mean absolute error 0.2246
Root mean squared error 0.3377
Relative absolute error 83.0124 %
Root relative squared error 91.6216 %
Total Number of Instances 2000
```

а	b c	d	e	f	< classified as
388	0 9	0	0	0	a = 3
2	0 222	0	0	0	b = 2
14	0 447	0	0	0	c = 1
50	0 420	0	0	0	d = 7
4	0 233	0	0	0	e = 5
106	0 105	0	0	0	f = 4

End System Time is 1493355801518 Accuracy of AdaBoostM1: 41.75%



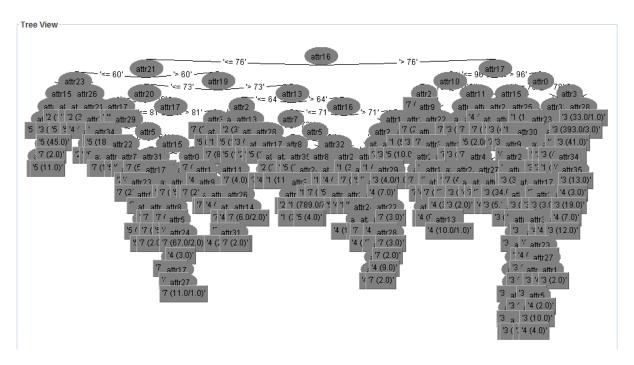
Start System Time for Decision Tree is 1493355808466

Correctly Classified Instances	1707	85.35	%
Incorrectly Classified Instances	293	14.65	%
Kappa statistic	0.82		
Mean absolute error	0.053		
Root mean squared error	0.2145		
Relative absolute error	19.6003 %		
Root relative squared error	58.1921 %		
Total Number of Instances	2000		

a	b	С	d	e	f		<	classified	as
347	0	6	8	1	35		а	= 3	
1	216	1	2	1	3		b	= 2	
5	3	440	2	9	2		С	= 1	
10	1	3	391	15	50	1	Ь	= 7	

```
4 7 13 15 197 1 | e = 5
35 1 1 54 4 116 | f = 4
```

End System Time for Decision Tree is 1493355810382



Polynomial Kernel

Correctly Classified Instances	1102		55.1	%
Incorrectly Classified Instances	898		44.9	%
Kappa statistic	0.4215			
Mean absolute error	0.1497			
Root mean squared error	0.3869			
Relative absolute error	55.3109	%		
Root relative squared error	104.95	%		
Total Number of Instances	2000			

=== Confusion Matrix ===

а	b	С	d	e	f	<	classified	as
360	0	8	29	0	0	a	= 3	
0	51	0	173	0	0	b	= 2	
4	0	234	223	0	0	c	= 1	
12	0	1	457	0	0	d	= 7	
0	0	9	228	0	0	e	= 5	
35	0	0	176	0	0	f	= 4	

End System Time for SVM is 1493356056729

RBF

Start System Time for SVM is 1493355812464

Correctly Classified Instances

1702

Incorrectly Classified Instances 298 14.9 % Kappa statistic 0.8156
Mean absolute error 0.0497
Root mean squared error 0.2229
Relative absolute error 18.3549 %
Root relative squared error 60.4578 %
Total Number of Instances 2000

=== Confusion Matrix ===

а	b	С	d	е	f	<	classified	as
379	0	2	4	1	11	a	= 3	
1	209	0	1	12	1	b	= 2	
3	0	457	0	1	0	C	= 1	
14	0	0	402	7	47	d	= 7	
3	4	19	35	172	4	e	= 5	
41	0	0	83	4	83	f	= 4	

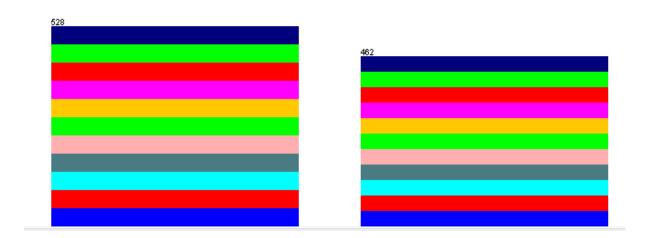
End System Time for SVM is 1493355831318

Vowel

Dimensions: 10 Classses: 11

Training: 528 (53.333%)

Test: 462



Start System Time for our L3M is 1493356293937

L3M Classification Results

Correctly Classified Instances : 148.0

InCorrectly Classified Instances : 314.0

Standard Deviation : 0.47286160177910835

Correctly Classified Instances Incorrectly Classified Instances Kappa statistic	148 314 0.2511	32.0346 % 67.9654 %
Mean absolute error	0.2274	
Root mean squared error	0.4729	
Relative absolute error	73.155 %	
Root relative squared error	108.243 %	
Total Number of Instances	462	

=== Confusion Matrix ===

a	b	С	d	е	f	< classified as
0	0	0	0	0	0	a = region1
22	68	0	2	39	0	b = region2
128	2	0	20	1	0	c = region3
2	1	0	53	0	0	d = region4
0	0	0	0	0	0	e = region5
2	7	0	35	53	27	f = region6

End System Time for our L3M is 1493356304622

Overall Accuracy of our L3M Classification : 32.03%

Coefficients...

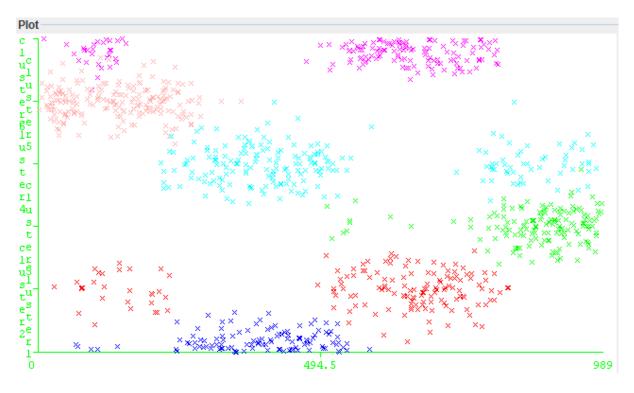
	Class				
Variable	region1	region2	region3	region4	region5
Train or Test	14.144	-0.5717	12.8952	9.3573	1.4355
Speaker Number=Andrew	-12.3282	13.3235	6.846	-5.6806	-11.5639
Speaker Number=Bill	-15.6586	-3.2444	-28.2491	-18.2686	-12.826
Speaker Number=David	-14.9292	-7.6988	-13.9028	-11.692	-15.628
Speaker Number=Mark	-40.8751	-0.8362	-21.194	-10.7901	-14.381
Speaker Number=Jo	16.6797	15.7227	-6.3323	4.634	13.2254
Speaker Number=Kate	0.3378	-11.522	16.9522	1.8268	11.6547
Speaker Number=Penny	7.1189	-4.5101	1.0274	0.2659	10.9
Speaker Number=Rose	3.0787	1.0523	-6.7281	2.2758	12.8766
Speaker Number=Mike	21.3877	-13.1719	18.5964	1.757	5.4521
Speaker Number=Nick	14.5151	-11.118	26.5034	-0.1134	2.2064
Speaker Number=Rich	26.7802	0.9278	8.6037	3.4543	6.7638
Speaker Number=Tim	22.218	6.0595	5.1386	2.884	3.0003
Speaker Number=Sarah	-14.7621	6.4088	-0.1556	11.3251	-2.2193
Speaker Number=Sue	-10.5531	8.5666	-10.4766	12.0503	-1.8116
Speaker Number=Wendy	-3.0095	0.0402	3.3708	6.0716	-7.6494
Sex	-0.2774	3.9396	-0.5856	9.6124	9.2441
Feature 0	4.0613	1.0496	-6.7339	-0.2492	0.1524
Feature 1	-5.6142	-5.2266	4.2221	-1.5039	-1.3288
Feature 2	-20.2072	-22.8799	14.5997	-6.0111	-4.7336
Feature 3	-3.1369	-4.5811	-2.1298	0.7731	1.9598
Feature 4	-1.296	1.1781	10.1431	2.9183	2.6238
Feature 5	2.9595	8.3215	6.2495	4.7043	5.0576
Feature 6	-3.4596	-29.0792	7.5074	-2.2514	-1.3815
Feature 7	-7.287	19.0942	17.4499	5.5926	3.6395
Feature 8	-11.4461	-14.652	10.9951	-5.1979	-6.6649
Feature 9	-19.9282	-8.0761	17.4626	-6.6998	-6.2625
Class=hid	4.7595	2.151	-3.7532	13.737	12.589
Class=hId	8.6061	17.1523	12.5456	10.2501	8.6072
Class=hEd	-2.9035	11.1601	8.8306	5.0746	2.7881
Class=hAd	-13.8407	6.3767	7.0478	-2.0233	-1.7381
Class=hYd	-7.1306	-4.7871	4.5156	-5.7332	-5.9217
Class=had	-7.9525	-14.9995	5.4594	-4.4271	-4.2511
Class=hOd	-6.6301	-4.2901	3.411	-4.7528	-3.7614
Class=hod	7.57	-5.3889	-9.916	-1.4423	1.2844
Class=hUd	7.0909	-7.5317	-12.352	-6.3472	-5.0559
Class=hud	11.4016	0.2295	-10.1272	-0.9765	-0.6196
Class=hed	-0.9708	-0.0722	-5.6615	-3.3594	-3.9209
Intercept	-2.9777	-23.4194	-47.3583	-7.8372	-1.3813

Odds Ratios...

Variable	Class region1	region2	region3	region4	region5
Train or Test	1388894.7654	0.5645	398378.6221	11582.4974	4.2019
Speaker Number=Andrew	0	611417.5588	940.066	0.0034	0
Speaker Number=Bill	0	0.039	0	0	0
Speaker Number=David	0	0.0005	0	0	0
Speaker Number=Mark	0	0.4334	0	0	0
Speaker Number=Jo	17534976.0569	6734062.0922	0.0018	102.9249	554285.4869
Speaker Number=Kate	1.4019	0	23028558.655	6.2138	115231.3838
Speaker Number=Penny	1235.0709	0.011	2.7938	1.3046	54178.1898
Speaker Number=Rose	21.7296	2.8641	0.0012	9.7354	391057.338
Speaker Number=Mike	1943318549.7239	0	119208851.7139	5.7952	233.2423
Speaker Number=Nick	2012924.7914	0	3.238046141040015E11	0.8928	9.0827
Speaker Number=Rich	4.2705523501295056E11	2.529	5451.9721	31.6372	865.9199
Speaker Number=Tim	4457961696.6994	428.16	170.4741	17.8852	20.0919

Speaker Number=Sarah	0	607.1736	0.8559	82879.1674	0.1087
Speaker Number=Sue	0	5252.9875	0	171156.9819	0.1634
Speaker Number=Wendy	0.0493	1.0411	29.1004	433.3524	0.0005
Sex	0.7577	51.3982	0.5568	14948.346	10343.3215
Feature 0	58.0497	2.8565	0.0012	0.7794	1.1646
Feature 1	0.0036	0.0054	68.1758	0.2223	0.2648
Feature 2	0	0	2190635.6405	0.0025	0.0088
Feature 3	0.0434	0.0102	0.1189	2.1664	7.0981
Feature 4	0.2736	3.2484	25414.083	18.5104	13.7885
Feature 5	19.2879	4111.1686	517.7532	110.4252	157.2118
Feature 6	0.0314	0	1821.523	0.1052	0.2512
Feature 7	0.0007	196112470.836	37877170.5508	268.4397	38.0746
Feature 8	0	0	59578.7427	0.0055	0.0013
Feature 9	0	0.0003	38364545.1427	0.0012	0.0019
Class=hid	116.685	8.5933	0.0234	924493.1406	293321.8842
Class=hId	5464.8925	28127879.9546	280856.3693	28286.2456	5470.9663
Class=hEd	0.0548	70268.5338	6840.1703	159.913	16.2507
Class=hAd	0	587.9908	1150.2687	0.1322	0.1759
Class=hYd	0.0008	0.0083	91.4329	0.0032	0.0027
Class=had	0.0004	0	234.9564	0.0119	0.0142
Class=hOd	0.0013	0.0137	30.2942	0.0086	0.0233
Class=hod	1939.2369	0.0046	0	0.2364	3.6124
Class=hUd	1201.0446	0.0005	0	0.0018	0.0064
Class=hud	89461.2478	1.258	0	0.3766	0.5382
Class=hed	0.3788	0.9303	0.0035	0.0348	0.0198

Time taken to build model: 2.6 seconds



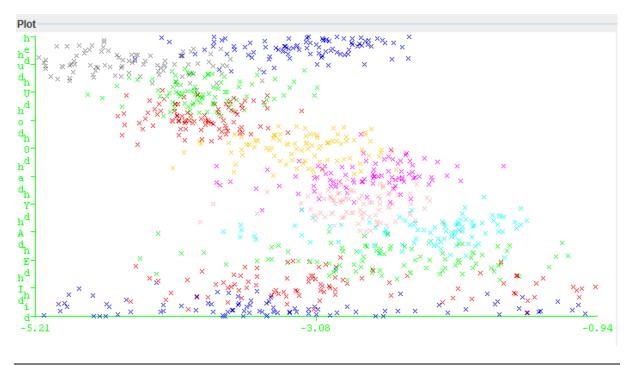
Start System Time is 1493356634034

Correctly Classified Instances	59	12.7706 %
Incorrectly Classified Instances	403	87.2294 %
Kappa statistic	0.0405	
Mean absolute error	0.1578	
Root mean squared error	0.2821	
Relative absolute error	95.4596 %	
Root relative squared error	98.1234 %	
Total Number of Instances	462	

a	b	С	d	е	f	g	h	i	j	k	< classified as
0	0	37	0	5	0	0	0	0	0	0	a = hid
0	0	27	0	15	0	0	0	0	0	0	b = hId
0	0	17	0	25	0	0	0	0	0	0	c = hEd

```
0 3 0 39 0
                0
                   0
                      0
                        0
                                d = hAd
        0 42 0
                0
                   0
                      0
                        0
                                e = hYd
        0 42 0
                                f = had
                0
                   0
                      0
                        0
                                g = h0d
        0 38 0
                0
                   0
                     0
                        0
                           0
0
  0 0
       0 42 0
                0 0 0
                        0
                           0 |
                                h = hod
    0
        0 42 0
                0
                   0 0
                        0
                           0 |
                                i = hUd
            0
                0
                   0
                      0
                        0
  0 6
        0 36
                           0 |
                                j = hud
        0 38
             0
                0
                   0
                     0
                           0 |
                                k = hed
```

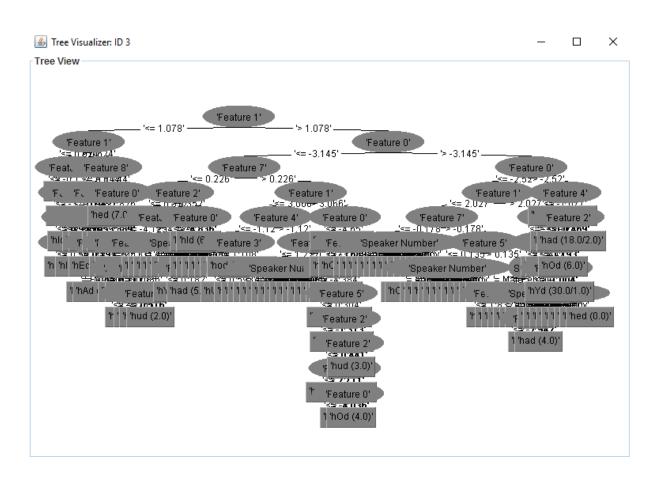
End System Time is 1493356634395
Accuracy of AdaBoostM1: 12.77%



Start System Time for Decision Tree is 1493356639050

```
Correctly Classified Instances
                                        163
                                                          35.2814 %
Incorrectly Classified Instances
                                        299
                                                          64.7186 %
Kappa statistic
                                         0.2881
                                         0.118
Mean absolute error
Root mean squared error
                                         0.3147
Relative absolute error
                                        71.364 %
Root relative squared error
                                       109.4816 %
Total Number of Instances
                                        462
```

```
<-- classified as
         d
                     h
                           j
                  g
                                   a = hid
27 12
      3
         0
            0
               0
                  0
                     0
                        0
                           0
                              0
0 17 13
         2
            0
               9
                  0
                     0
                        1
                           0
                              0
                                    = hId
                                   c = hEd
         5
            0 14
                  3
                     0
                        0
                           0
                              6
0
   0
      0 10 9 16
                  2
                     0
                        0
                                   d = hAd
                           0
                              5
0
                                   e = hYd
   0
     0 6 28
              1
                  7
                     0
                        0
                           0
                              0
                                   f = had
0
   0 0 5 17 12 0
                     0
                        0
                           0
                              8
0
   0 1 0 6 16 13
                     0
                        0
                           1
                                   g = h0d
0
   0 0 0 0
              5
                  9 27
                        1
                           0
                                   h = hod
0
   1
     0 0 0 8
                 6 15
                        5
                           5
                              2 |
                                   i = hUd
2
      2 1 0 9
                  1 3 1 15
                             4 |
                                   j = hud
   1
         1
            0 19 5
                     0 15
                          0
                                   k = hed
                              0 |
```



Polynomial Kernel

Correctly Classified Instances	90	19.4805 %
Incorrectly Classified Instances	372	80.5195 %
Kappa statistic	0.1143	
Mean absolute error	0.1464	
Root mean squared error	0.3826	
Relative absolute error	88.5714 %	
Root relative squared error	133.095 %	
Total Number of Instances	462	

a	b	С	d	е	f	g	h	i	j	k	< classified as
3	0	15	9	0	0	0	0	0	0	15	a = hid
0	5	13	12	0	1	0	0	0	0	11	b = hId
0	0	15	25	1	1	0	0	0	0	0	c = hEd
0	0	0	36	0	6	0	0	0	0	0	d = hAd
0	0	0	6	16	16	0	0	0	0	4	e = hYd
0	0	0	15	13	9	0	0	0	0	5	f = had
0	0	0	6	22	12	0	0	0	0	2	g = h0d
0	0	0	0	35	0	0	0	0	0	7	h = hod
0	0	0	8	10	2	0	0	0			i = hUd
0	0	6	0	0	5	0	0	3	0	28	j = hud

```
0 0 0 18 9 9 0 0 0 0 6 | k = hed
```

End System Time for SVM is 1493356641492

RBF

Correctly Classified Instances	209	45.2381 %
Incorrectly Classified Instances	253	54.7619 %
Kappa statistic	0.3976	
Mean absolute error	0.0996	
Root mean squared error	0.3155	
Relative absolute error	60.2381 %	
Root relative squared error	109.7616 %	
Total Number of Instances	462	

=== Confusion Matrix ===

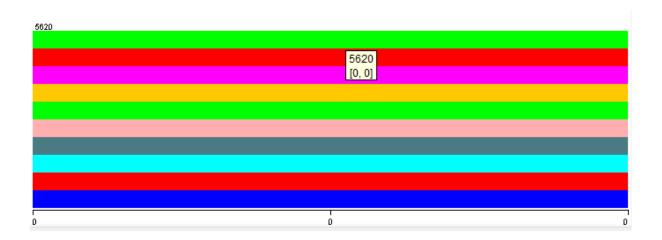
а	b	С	d	e	f	g	h	i	j	k	< classified as
35	3	4	0	0	0	0	0	0	0	0	a = hid
23	4	12	0	0	0	0	0	0	0	3	b = hId
0	2	18	11	0	0	0	0	0	0	11	c = hEd
0	0	0	31	0	9	0	0	0	0	2	d = hAd
0	0	0	5	14	17	6	0	0	0	0	e = hYd
0	0	6	0	8	18	2	0	0	0	8	f = had
0	0	3	1	22	6	5	0	0	0	5	g = h0d
0	0	0	0	6	0	0	19	15	2	0	h = hod
0	0	4	0	0	0	1	11	20	6	0	i = hUd
13	0	6	0	0	0	0	0	8	14	1	j = hud
0	0	11	0	0	0	0	0	0	0	31	k = hed

End System Time for SVM is 1493356908751

Optdigits

Dimensions : 64

Classes : 10 Training : 3823 (0.680249) Test : 1797



input2 input3 input4 input5	region1	region2	region3	region4	region5
input3 input4 input5	368.7728		369.2928	364.0717	384.3094
input4 input5	6.5531	-16.1384	6.3372	5.7256	-2.4685
	11.0474	8.8715	10.8513	13.5076	11.4897
	-6.6115	-6.8497	-5.9838	-6.8515	-1.6188
input6	-8.9383	-7.1849	-8.9218	-9.7447	-14.6758
input7	163.723	170.3662	168.5444	172.8043	171.2046
input8	-95.8888	-124.026	-196.2257	-94.406	-253.9416
input9 input10	-338.2884 -11.8954	-270.27 -93.3427	-380.2683 -12.4197	-699.852 -12.9535	-507.5278 -10.5871
input10	6.0903	2.6631	6.7577	4.5838	15.377
input12	6.1612	5.202	5.3117	5.8077	12.2098
input13	0.9515	1.6636	1.468	-0.7449	-2.5312
input14	9.3899	7.7973	9.4573	11.7676	0.2703
input15	-18.6229	-17.4842	-18.6969	-16.4353	-23.7442
input16	-82.3257	-81.1746	-152.7868	-71.756	-75.5096
input17	286.9279	92.1782	191.3116	236.3026	452.2453
input18	-7.2183	-16.3623	-7.1326	-10.3996	-25.2951
input19	-11.4591	-10.5776	-11.4665	-12.0599	-16.0228
input20 input21	-2.3249 3.7077	-1.6204 2.6107	-2.7979 2.6815	-3.407 2.4982	-4.6313 0.2001
input21	-30.7854	-32.0563	-30.6519	-31.2764	-35.9768
input23	20.6147	29.8649	23.2449	26.8663	34.3468
input24	196.8545	160.431	150.0148	157.4177	58.9393
input25	964.7875	880.6098	233.0858	-465.1305	249.2659
input26	-17.8656	-13.0568	-17.2026	-18.2918	-14.3895
input27	8.0366	8.161	7.3744	8.719	10.4927
input28	10.2252	10.7156	10.4756	9.4908	10.3319
input29	15.645	15.3434	17.105	15.6671	10.3924
input30	35.3199	36.9709	35.0781	36.2173	29.9634
input31	-17.6682	-5.2061	-3.5259	-5.6133	-6.1593
input32	339.4109	398.5667	268.7383	131.5344	593.2301
input33	1320.4977	445.7828	474.8957	707.9778	-3325.9835
input34 input35	-7.0363 -25.055	0.9173 -23.7854	-11.6116 -24.8095	1.005 -26.9395	8.763 -29.0417
input36	0.806	0.2678	0.2987	1.1159	0.4158
input37	63.0976	62.8822	62.3669	65.093	61.2011
input38	-5.6786	-4.0711	-2.5387	-2.3995	-3.688
input39	-66.0798	-15.6392	-19.0937	-19.6869	-29.0847
input41	-350.5494	-240.0661	-197.2647	-354.8018	-689.6397
input42	7.8477	12.7141	2.547	6.1692	5.6009
input43	10.3798	10.7664	8.9445	10.5148	14.5762
input44	4.492	5.1185	2.7759	6.1203	5.4734
input45	23.5931	25.6	22.7169	23.7617	20.0051
input46	-16.0288	-12.2927	-13.972	-16.5271	-18.9656
input47	27.9937	28.123	34.4736	23.4013	39.6622
input48	-210.9814	-321.5383	-342.4879	-457.0104	-241.9319
input49	235.0266	210.8465	204.7761	219.1587	236.0812
input50 input51	27.2425 -38.0275	19.61 -37.4215	29.3157 -38.2936	7.2016 -39.6913	26.0686 -35.3566
input52	6.3223	3.2053	4.6366	5.6309	6.6585
input53	-2.5986	-0.5969	-2.9436	-0.4825	-1.3876
input54	7.8761	7.5686	9.1168	4.9893	14.9473
input55	-33.6919	-34.4634	-33.8909	-93.3035	-33.2805
input56	108.0552	67.5627	91.921	303.1193	119.7337
input57	-2439.8058	-2405.1226	-3493.0266	-3144.5329	-2201.242
input58	78.2991	-5.6335	62.2207	70.3517	-66.1056
input59	9.096	-8.0582	10.194	8.4735	8.1048
input60	-9.5137	-11.3989	-9.2527	-14.483	-14.0626
input61	-9.4338	-8.2882	-8.8887	-11.4263	-11.6858
input62	3.1086	1.6729	3.3029	-8.627	1.3588
input63	37.0179	30.8378	37.706	54.9442	43.2626
input64	-51.862	-57.2033	-75.8659	-427.0321 117.702	-74.6676 141.1248
class=0 class=1	139.4603 255.6208	62.4867 267.1133	92.7902 244.2968	117.792 216.5987	141.1248 294.6242
class=1 class=2	27.0482	124.4689	57.3207	15.3345	-71.438
class=3	-352.0156	-334.1281	-349.7065	-343.6876	-342.6968
class=4	148.6891	143.196	166.6945	139.3877	-96.0705
class=5	144.7778	133.1907	138.5449	123.1677	150.7383
class=6	255.7601	209.4041	240.0566	327.3497	348.8872
class=7	-1286.9104	-1262.9485	-1289.163	-1251.1376	-1262.8734
class=8	374.0552	372.7502	394.0676	379.7546	455.3836
class=9	311.4234	301.2427	322.738	293.6554	402.5958
Intercept	400.7723	477.4404	343.7864	440.4896	341.3368
Odds Ratios					
	Class				
Variable	region1	region2	region3	region4	region5
	1 42214006047674465160	7 2566070024062425207		1 20117075700404225150	
	1.4321408684767446E160 701.4279	7.256607082486243E207 0	2.4090223370280725E160 565.1994	1.3011787570048422E158 306.6083	8.006902396110575E166 0.0847
 input2		7126.306	51603.4029	734956.1539	97707.3196
input2 input3	P.) 181 BYEU	/ 120.300	0.0025	0.0011	0.1981
======= input2 input3 input4	62781.8459 0.0013	0.0011			
input2 input3 input4 input5	62/81.8459 0.0013 0.0001	0.0011 0.0008	0.0023	0.0001	0
input2 input3 input4 input5 input6	0.0013				
======== input2 input3 input4 input5 input6 input7	0.0013 0.0001	0.0008	0.0001	0.0001	0
======================================	0.0013 0.0001 1.2705761841830729E71	0.0008 9.752381373502657E73	0.0001 1.577228371968296E73	0.0001 1.1167868105763053E75	0 2.2553119891234843E74
input2 input3 input4 input5 input6 input7 input8 input9	0.0013 0.0001 1.2705761841830729E71 0	0.0008 9.752381373502657E73 0	0.0001 1.577228371968296E73 0	0.0001 1.1167868105763053E75 0	0 2.2553119891234843E74 0
input2 input3 input4 input5 input6 input7 input8 input8 input9	0.0013 0.0001 1.2705761841830729E71 0 0	0.0008 9.752381373502657E73 0 0	0.0001 1.577228371968296E73 0 0	0.0001 1.1167868105763053E75 0 0	0 2.2553119891234843E74 0 0
input2 input3 input4 input5 input6 input7 input8 input9 input10 input10 input11	0.0013 0.0001 1.2705761841830729E71 0 0 0 441.5658 474.0034	0.0008 9.752381373502657E73 0 0 14.3402 181.6355	0.0001 1.577228371968296E73 0 0 860.621 202.6952	0.0001 1.1167868105763053E75 0 0 0 97.8821 332.8377	0 2.2553119891234843E74 0 0 0 4765875.3547 200755.2755
input2 input3 input4 input5 input6 input7 input8 input9 input10 input11 input112 input12	0.0013 0.0001 1.2705761841830729E71 0 0 0 441.5658 474.0034 2.5896	0.0008 9.752381373502657E73 0 0 14.3402 181.6355 5.278	0.0001 1.577228371968296E73 0 0 860.621 202.6952 4.3405	0.0001 1.1167868105763053E75 0 0 9 97.8821 332.8377 0.4748	0 2.2553119891234843E74 0 0 0 4765875.3547 200755.2755 0.0796
input2 input3 input4 input5 input6 input7 input8 input9 input10 input11 input11 input12 input13 input13	0.0013 0.0001 1.2705761841830729E71 0 0 441.5658 474.0034 2.5896 11966.3359	0.0008 9.752381373502657E73 0 0 0 14.3402 181.6355 5.278 2433.9344	0.0001 1.577228371968296E73 0 0 860.621 202.6952 4.3405 12801.0098	0.0001 1.1167868105763053E75 0 0 97.8821 332.8377 0.4748 129000.7159	0 2.2553119891234843E74 0 0 0 4765875.3547 200755.2755 0.0796 1.3103
input2 input3 input4 input5 input6 input7 input8 input9 input10 input11 input12 input13 input14 input14	0.0013 0.0001 1.2705761841830729E71 0 0 441.5658 474.0034 2.5896 11966.3359	0.0008 9.752381373502657E73 0 0 14.3402 181.6355 5.278 2433.9344 0	0.0001 1.577228371968296E73 0 0 0 860.621 202.6952 4.3405 12801.0098	0.0001 1.1167868105763053E75 0 0 9 97.8821 332.8377 0.4748 129000.7159 0	0 2.2553119891234843E74 0 0 0 4765875.3547 200755.2755 0.0796 1.3103 0
input2 input3 input4 input5 input6 input7 input8 input9 input10 input11 input11	0.0013 0.0001 1.2705761841830729E71 0 0 441.5658 474.0034 2.5896 11966.3359	0.0008 9.752381373502657E73 0 0 0 14.3402 181.6355 5.278 2433.9344	0.0001 1.577228371968296E73 0 0 860.621 202.6952 4.3405 12801.0098	0.0001 1.1167868105763053E75 0 0 0 97.8821 332.8377 0.4748 129000.7159 0	0 2.2553119891234843E74 0 0 0 4765875.3547 200755.2755 0.0796 1.3103

input18	0.0007	0	0.0008	0	0
input19	0	0	0	0	0
input20	0.0978	0.1978	0.0609	0.0331	0.0097
input21	40.7584	13.6088	14.6066	12.1606	1.2215
input22	0	0	0	0	0
input23	897124352.4704	9.336030272582006E12	1.2448898813644667E10	4.6545822170979205E11	8.252982194646855E14
input24	3.11042532217903E85	4.7238294728869385E69	1.414431303624643E65	2.3207330588785633E68	3.953965093050007E25
input25	Infinity	Infinity	1.6899914553429574E101	0	1.7979967560826526E108
input26	0	0	0	0	0
input27	3092.2107	3501.8317	1594.5877	6117.8342	36050.6692
input28	27589.8075	45053.5377	35441.3933	13237.1935	30696.2118
input29	6230594.3918	4608566.4279	26827924.0234	6370010.1474	32610.6509
input30	2.1838664244698125E15	1.1383369604711936E16	1.7148288579549425E15	5.357742866942348E15	1.0302559834350191E13
input31	0	0.0055	0.0294	0.0036	0.0021
input32	2.5368248402161113E147	1.2454819043497229E173	5.147188973790723E116	1.332534052967912E57	4.330573641323708E257
input33	Infinity	3.990422121166648E193	1.7562870145553415E206	2.957027534311601E307	0
input34	0.0009	2.5026	0	2.732	6393.2983
input35	0	0	0	0	0
input36	2.239	1.3071	1.3481	3.0522	1.5156
input37	2.528940457860272E27	2.0388930104138405E27	1.217888161500518E27	1.8600150058889155E28	3.795784582903919E26
input38	0.0034	0.0171	0.079	0.0908	0.025
input39	0	0	0	0	0
input41	9	9	9	9	9
input42	2559.918	332403.8092	12.7684	477.7966	270.662
input43	32202.693	47400.0318	7665.8977	36856.0144	2139845.5816
input44	89.3038	167.0919	16.0525	455.0146	238.2693
input45	1.7634650258625607E10	1.312063856858676E11	7342408987.5354	2.0871795079259457E10	487660245.6499
input46	0	0	0	0	0
input47	1.4371893884901484E12	1.6354893447668428E12	9.369410293389455E14	1.4555750001504225E10	1.67910439838571264E17
input48	0	1.0334033447000420212	9.505410255505455214	1.45557,50001504225210	1.07510455050571204217
input49	1.1769185459943346E102	3.710802129556436E91	8.573253391047642E88	1.5115563470460208E95	3.3789467269502274E102
input50	6.780791180896476E11	328475607.0794	5.39064952147407E12	1341.5365	2.096211197008035E11
input51	0.700731100030470211	920473007.0734	0.55004552147407212	1541.5505	2.030211137000033211
input52	556.8511	24.6635	103.1981	278.912	779.3999
input53	0.0744	0.5505	0.0527	0.6172	0.2497
input54	2633.5996	1936.4728	9106.7347	146.8348	3101259.581
input55	2033.3330	1550:4728	9100.7547	140.0548	9101299.381
input56	8.467675614748483E46	2.198514848290076E29	8.33291814580936E39	4.3956361601381225E131	9.992934522995965E51
input57	8.407073014746463E40 0	2.198314848290070129	0.33291014300930E39	4.39303010013812232131	9.992934322993903E31
input58	1.0112283886410446E34	0.0036	1.0522670571454475E27	3.5757159117506975E30	9
input59	8919.9284	0.0003	26742.9339	4786.4087	3310.47
input60	0.0001	0.0003	0.0001	4780.4087	9310.47
input61	0.0001	0.0003	0.0001	0	9
	22.3895	5.3276	27.192	0.0002	3.8916
input62	1.1930221889145266E16	2.4700469745674594E13	2.3740435739995192E16	7.277434729307794E23	6.1473725642415749E18
input63	1.1930221889145266E16	2.4/00409/450/4594615	2.3/40433/39993192616	7.2//434/2930//94623	0.14/3/25642415/49E18
input64	3.688392604805042E60	1.372913204953054E27	1.9873290431095267E40	1.4335631288397528E51	1.948523430010085E61
class=0					
class=1	1.0344194956873926E111	1.0135612459635169E116 1.1380055958998045E54	1.2496027859630407E106	1.168526979076357E94 4567526.4556	8.987883149313593E127
class=2	5.583152487304464E11		7.83522224108281E24		0
class=3	2 757002610540517564	1 5460100106130700563	2 400105130365700573	2 420152251260062560	•
class=4	3.757092619540517E64	1.5460108196120708E62	2.480195138265799E72	3.430152251260862E60	2 01600742520524565
class=5	7.519459282389137E62	6.982318260838686E57	1.4766359065907662E60	3.0977124318449874E53	2.91609742538534E65
class=6	1.1889931117974326E111	8.7707328767403E90	1.7999673018719214E104	1.46610400787563E142 0	3.3097290809905606E151
class=7	0	7 (445001605504005161	1 20400044670272265171	-	0
class=8	2.8192145510108255E162	7.644509168550489E161	1.3848084467027226E171	8.420157458457269E164	5.896266158375887E197
class=9	1.7760730398465708E135	6.73020300377804E130	1.4565433455060335E140	3.411196596533113E127	7.000666311100704E174

Time taken to build model: 25.69 seconds

Start System Time for our L3M is 1493356996453

L3M Classification Results

Correctly Classified Instances : 1680.0

InCorrectly Classified Instances : 117.0

Standard Deviation : 0.1457283511750596

Correctly Classified Instances 93.4891 % 1680 Incorrectly Classified Instances 6.5109 % 117 0.919 Kappa statistic Mean absolute error 0.0218 Root mean squared error 0.1457 Relative absolute error 8.1238 % 39.8114 % Root relative squared error Total Number of Instances 1797

=== Confusion Matrix ===

a b c d e f <-- classified as

```
199 0 5 5 6 2 | a = region1

1 165 0 3 2 4 | b = region2

0 0 174 5 5 0 | c = region3

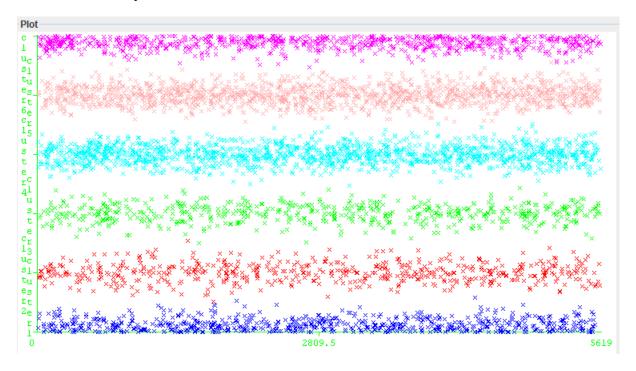
2 3 5 435 13 5 | d = region4

4 2 3 5 462 4 | e = region5

8 3 10 2 10 245 | f = region6
```

End System Time for our L3M is 1493357048787

Overall Accuracy of our L3M Classification : 93.49%

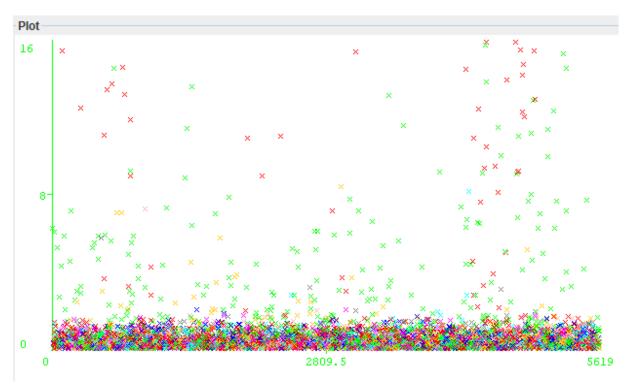


Start System Time is 1493357835012

Correctly Classified Instances	348	19.3656 %
Incorrectly Classified Instances	1449	80.6344 %
Kappa statistic	0.1028	
Mean absolute error	0.1692	
Root mean squared error	0.2917	
Relative absolute error	94.017 %	
Root relative squared error	97.2466 %	
Total Number of Instances	1797	

а	b	c c	l e	f g	g h	i	j	< classified as
0	0	0 3	8 0	0 175	0	0	0	a = 0
0	0	0 114	- 0	0 68	0	0	0	b = 1
0	0	0 113	0	0 64	- 0	0	0	c = 2
0	0	0 168	8 0	0 15	0	0	0	d = 3
0	0	0 43	0	0 138	0	0	0	e = 4
0	0	0 167	0	0 15	0	0	0	f = 5
0	0	0 1	. 0	0 186	0	0	0	g = 6
0	0	0 112	9	0 67	0	0	0	h = 7

End System Time is 1493357835408 Accuracy of AdaBoostM1: 19.37%



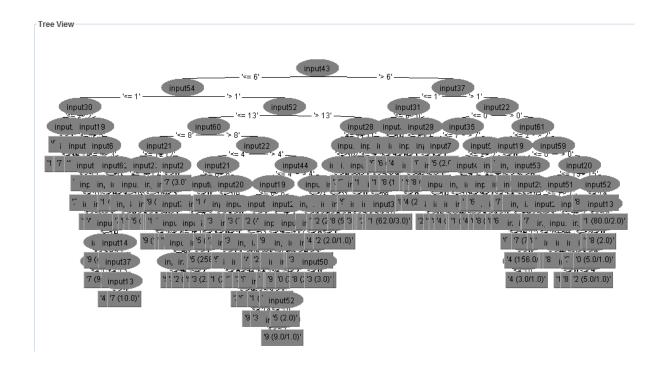
Start System Time for Decision Tree is 1493357838839

Correctly Classified Instances	1541	85.754	%
Incorrectly Classified Instances	256	14.246	%
Kappa statistic	0.8417		
Mean absolute error	0.0306		
Root mean squared error	0.1614		
Relative absolute error	16.9876 %		
Root relative squared error	53.8008 %		
Total Number of Instances	1797		

=== Confusion Matrix ===

а	b	С	d	e	f	g	h	i	i	< classified as
169	0	0	0	5	2	0	0	1	1	a = 0
0	164	1	2	0	0	2	8	2	3	b = 1
1	4	149	6	4	0	5	0	8	0	c = 2
0	11	6	147	1	0	0	4	7	7	d = 3
3	11	1	1	149	0	2	3	10	1	e = 4
2	1	1	4	5	159	4	1	1	4	f = 5
0	2	0	0	2	1	170	0	6	0	g = 6
0	0	0	1	8	0	1	141	13	15	h = 7
0	8	10	3	2	4	1	1	143	2	i = 8
3	1	7	5	5	5	0	3	1	150	j = 9

End System Time for Decision Tree is 1493357839395 Accuracy of Decision Tree : 52.56%



Polynomial											
Correctly Classified Instances	267	14.8581 %									
Incorrectly Classified Instances	1530	85.1419 %									
Kappa statistic	0.0521										
Mean absolute error	0.1703										
Root mean squared error	0.4127										
Relative absolute error	94.6029 %										
Root relative squared error	137.5513 %										
Total Number of Instances	1797										
=== Confusion Matrix ===	=== Confusion Matrix ===										
abcdefgh	i j < clas	sified as									

а	b	С	d	е	f	g	h	i	j	< classified as
0	0	0	178	0	0	0	0	0	0	a = 0
0	84	0	98	0	0	0	0	0	0	b = 1
0	0	0	177	0	0	0	0	0	0	c = 2
0	0	0	183	0	0	0	0	0	0	d = 3
0	9	0	172	0	0	0	0	0	0	e = 4
0	0	0	182	0	0	0	0	0	0	f = 5
0	6	0	175	0	0	0	0	0	0	g = 6
0	0	0	179	0	0	0	0	0	0	h = 7
0	21	0	153	0	0	0	0	0	0	i = 8
0	0	0	180	0	0	0	0	0	0	j = 9

End System Time for SVM is 1493358123042

Start System Time for SVM is 1493357840265

Correctly Classified Instances	1753	97.5515 %
Incorrectly Classified Instances	44	2.4485 %

Kappa statistic 0.9728 Mean absolute error 0.0049 Root mean squared error 0.07 Relative absolute error 2.7206 % 23.3263 % Root relative squared error Total Number of Instances 1797

=== Confusion Matrix ===

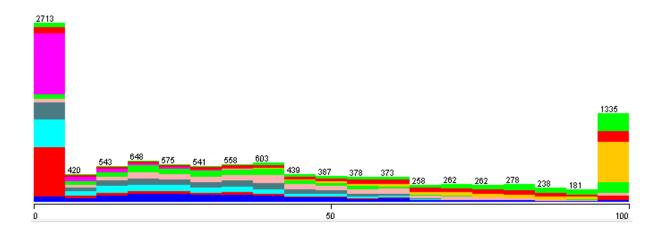
а	b	С	d	e	f	g	h	i	j	< classified as
177	0	0	0	1	0	0	0	0	0	a = 0
0	180	0	0	0	0	0	0	1	1	b = 1
0	2	175	0	0	0	0	0	0	0	c = 2
0	0	2	175	0	2	0	2	1	1	d = 3
0	0	0	0	180	0	0	0	1	0	e = 4
0	0	0	0	0	180	0	0	0	2	f = 5
0	0	0	0	1	0	179	0	1	0	g = 6
0	0	0	0	0	3	0	169	0	7	h = 7
0	6	0	0	0	0	0	0	163	5	i = 8
0	0	0	2	0	2	0	0	1	175	j = 9

End System Time for SVM is 1493357845059

Pendigits

Dimensions : 16

Classes : 10 Training : 7494 (0.681769) Test : 3498



Coefficients...

Variable	Class region1	region2	region3	region4	region5
input1	0.195	 0.0689	0.3596	 0.2202	0.1233
input2	-0.4052	0.027	0.9056	-0.0183	-0.3829
input3	0.2346	-0.0053	0.1359	0.1677	0.1937
input4	0.6356	0.1883	1.2475	0.585	1.676
input5	0.1748	0.1215	-0.0931	-0.375	0.2913
input6	-0.1399	0.3255	-0.8531	-0.2783	-0.2743
input7	-0.0256	-0.0039	-0.3703	-0.0013	-0.058
input8	1.2393	-0.0651	0.8554	1.18	1.1102
input9	0.1452	-0.1892	-0.0555	0.2242	-0.0028
input10	-0.4434	-0.1481	-0.8963	-0.5674	-0.6377

input11	-0.3176	-0.3752	-0.3538	-0.275	-0.4496
input12	-0.0496	-0.2188	-0.3013	0.2405	-0.3786
input13	0.1258	0.0901	0.1763	0.1877	0.0516
input14	-0.9765	-0.1533	-0.9312	-0.7591	-0.9275
input15	0.2171	0.247	-0.0355	0.228	0.7961
input16	-0.5211	0.5921	-0.2292	-19.0145	-0.4028
class=0	-122.47	-89.3814	-105.8483	-144.9444	-87.7893
class=1	-94.7377	-70.9827	-90.5076	-114.1858	-66.6618
class=2	-199.9526	-185.7943	-212.6227	-235.4539	-169.7767
class=3	-82.2723	-71.5864	-104.8174	-83.2053	-72.054
class=4	-11.1915	-57.6068	-1.5055	-15.8414	-52.6113
class=5	630.3594	662.3303	629.6442	624.4528	549.4324
class=6	199.5357	69.4526	209.2244	207.0532	154.7663
class=7	-37.7418	-38.897	-44.3943	-41.3792	-14.226
class=8	-113.7984	-85.8843	-115.2065	-16.5356	-77.4009
class=9	-133.3497	-98.8625	-130.4245	-139.2286	-134.7693
Intercept	132.3036	44.901	41.3588	120.5915	-5.7688

Odds Ratios...

ouds Nacios.	Class				
Variable	region1	region2	region3	region4	region5
input1	1.2153	1.0713	1.4328	1.2463	1.1312
input2	0.6669	1.0274	2.4734	0.9819	0.6819
input3	1.2644	0.9947	1.1456	1.1826	1.2137
input4	1.8882	1.2072	3.4816	1.795	5.3442
input5	1.191	1.1292	0.9111	0.6873	1.3382
input6	0.8694	1.3848	0.4261	0.7571	0.7601
input7	0.9747	0.9961	0.6905	0.9987	0.9437
input8	3.4532	0.937	2.3522	3.2542	3.035
input9	1.1563	0.8276	0.946	1.2513	0.9972
input10	0.6419	0.8624	0.4081	0.567	0.5285
input11	0.7279	0.6872	0.702	0.7596	0.6379
input12	0.9516	0.8035	0.7398	1.2719	0.6848
input13	1.134	1.0943	1.1928	1.2065	1.0529
input14	0.3766	0.8579	0.3941	0.4681	0.3955
input15	1.2425	1.2802	0.9652	1.2561	2.2168
input16	0.5939	1.8078	0.7952	0	0.6685
class=0	0	0	0	0	0
class=1	0	0	0	0	0
class=2	0	0	0	0	0
class=3	0	0	0	0	0
class=4	0	0	0.2219	0	0
class=5	5.77552394814748E273	4.429927208517138E287	2.824760411862522E273	1.5719057103328766E271	4.125136900559797E238
class=6	4.541888972640503E86	1.455018797006993E30	7.328537360764346E90	8.357607783753689E89	1.6373905625783728E67
class=7	0	0	0	0	0
class=8	0	0	0	0	0
class=9	0	0	0	0	0

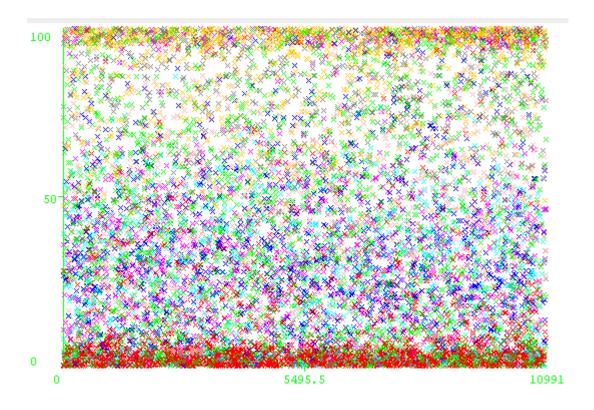
Time taken to build model: 10.53 seconds

Correctly Classified Instances	3457	98.8279 %
Incorrectly Classified Instances	41	1.1721 %
Kappa statistic	0.9853	
Mean absolute error	0.0043	
Root mean squared error	0.0573	
Relative absolute error	1.6186 %	
Root relative squared error	15.7239 %	
Total Number of Instances	3498	

as	< classified	f	е	d	С	b	a
	a = region1	0	6	4	0	0	1077
	b = region2	3	6	0	2	357	1
	c = region3	0	1	1	352	0	1
	d = region4	0	0	493	1	0	3
	e = region5	0	785	0	0	1	9
	f = region6	393	0	0	0	1	1

Incorrectly Classified Instances Kappa statistic Mean absolute error Root mean squared error Relative absolute error Root relative squared error Total Number of Instances === Confusion Matrix === a b c d e f g h 359 0 0 0 4 0 0 0 0 0 0 0 364 0 0 0						ces		9:	0.1147 0.1662 0.2885 2.3348 % 6.1696 %	79.331	%	
a	b	С	d	e	f	g	h	i	j	< classified	d as	
359	0	0	0	4	0		0	0	0	a = 0		
0	0	0	0	364	0	0	0	0	0	b = 1		
6	0	0	0	358	0	0	0	0	0	c = 2		
8	0	0	0	328	0	0	0	0	0	d = 3		
0	0	0	0	364	0	0	0	0	0	e = 4		
169	0	0	0	166	0	0	0	0	0	f = 5		
200	0	0	0	136	0	0	0	0	0	g = 6		
284	0	0	0	80	0	0	0	0	0	h = 7		
336	0	0	0	0	0	0	0	0	0	i = 8		
5	0	0	0	331	0	0	0	0	0	j = 9		

End System Time is 1493358950224 Accuracy of AdaBoostM1: 20.67%



Start System Time for Decision Tree is 1493358956735

Correctly Classified Instances	3220	92.0526 %
Incorrectly Classified Instances	278	7.9474 %
Kappa statistic	0.9117	
Mean absolute error	0.0174	
Root mean squared error	0.124	

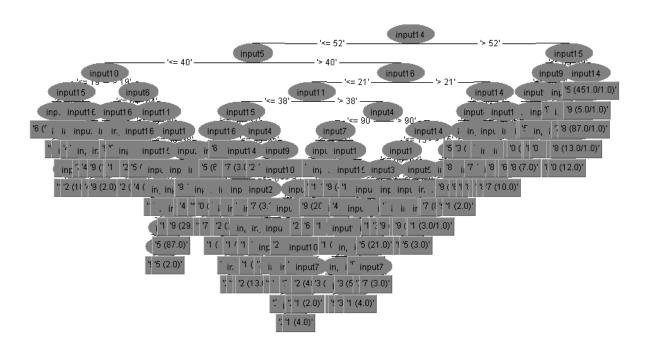
Relative absolute error Root relative squared error Total Number of Instances 9.6826 % 41.3535 % 3498

=== Confusion Matrix ===

a	b	С	d	e	f	g	h	i	j	< classified as
347	1	0	0	0	0	0	2	13	0	a = 0
0	315	45	0	1	0	0	2	0	1	b = 1
0	21	339	0	0	0	0	2	0	2	c = 2
0	5	2	324	0	3	0	1	0	1	d = 3
0	3	2	0	348	3	2	0	0	6	e = 4
0	1	0	18	2	283	1	0	6	24	f = 5
6	2	0	0	1	3	318	2	0	4	g = 6
0	34	4	0	0	0	0	324	2	0	h = 7
2	0	1	0	0	2	2	8	320	1	i = 8
0	11	0	7	4	9	0	2	1	302	j = 9

End System Time for Decision Tree is 1493358958450 Accuracy of Decision Tree : 56.36%

Tree View



Start System Time for SVM is 1493358961300

Polynomial Kernel

Correctly Classified Instances	2833	80.9891 %
Incorrectly Classified Instances	665	19.0109 %
Kappa statistic	0.7888	
Mean absolute error	0.038	
Root mean squared error	0.195	
Relative absolute error	21.1269 %	%
Root relative squared error	65.003	%
Total Number of Instances	3498	

```
а
     b
         C
              d
                  e
                     f
                              h
                                i
                                      j
                                          <-- classified as
                         g
323
     0
         8
              0
                  0
                     0 20
                             0 12
                                            a = 0
                                      0 I
                 1 24
 0 141 157
              3
                         36
                             2 0
                                      0 |
                                            b = 1
     2 359
              0
                      0
                             3
 0
                  0
                        0
                                  0
                                      0 |
                                            c = 2
 0
      2
          0 332
                  0
                      0
                        0
                             0
                                      2 |
     0
         6
             0 334
                     0 22
                             0
                                  0
                                      2 |
 0
 0
     0
         0
            49
                  0 193 39
                              0
                                  0
                                     54 l
                                            f = 5
                      0 336
                              0
                                      0 |
                                            g = 6
 0
     0
         0
              0
                  0
                                  0
     52 106
 0
                      2
                          8 185
                                  1
                                      2
                                            h = 7
              8
                  0
 5
     0
          3
              0
                  0
                      5
                          1
                              0 322
                                      0 |
                                            i = 8
 0
      7
          0
            16
                  3
                      0
                          1
                                  1 308 |
```

End System Time for SVM is 1493358996315

RBF

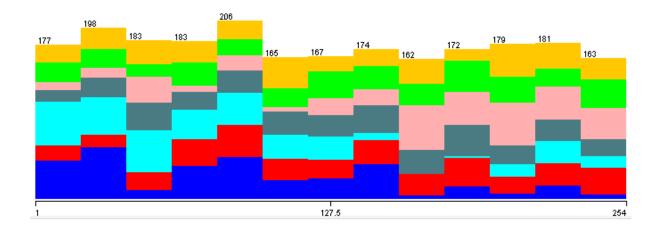
```
Start System Time for SVM is 1493359289137
                                                         95.6832 %
Correctly Classified Instances
                                    3347
Incorrectly Classified Instances
                                       151
                                                          4.3168 %
Kappa statistic
                                         0.952
Mean absolute error
                                         0.0086
Root mean squared error
                                         0.0929
Relative absolute error
                                         4.7972 %
                                        30.975 %
Root relative squared error
Total Number of Instances
                                      3498
=== Confusion Matrix ===
                                           <-- classified as
      b
           c
               d
                   e
                               h
                                 i
                                       j
                           g
 343
      0
           0
               0
                   0
                       0
                           0
                                  20
                                       0 |
                                             a = 0
  0 308
         35
               0
                   1
                      19
                           0
                              1
                                       0 |
                                             b = 1
                                   0
      3 361
  0
               0
                   0
                       0
                           0
                              0
                                   0
                                       0 |
                                             c = 2
          0 332
                   0
                      0
                              0
  0
      2
                           0
                                   0
                                       2 |
                                             d = 3
  0
              0 352 10
                           2
                              0
                                   0
                                       0 |
                                             e = 4
      0
          0
  0
      0
          0
               7
                   0 325
                           0
                              0
                                   0
                                       3 l
                                             f = 5
  0
     1
         0
              0
                   0
                       0 335
                              0
                                   0
                                       0 |
                                             g = 6
  0
     25
                           0 330
                                   1
                                             h = 7
          3
              1
                   0
                       0
                                       4
  2
                                       0 |
                                             i = 8
      0
          0
               0
                   0
                       2
                           0
                               0 332
      3
                                   1 329 |
               0
                   0
                       2
                                             j = 9
                           0
                               1
```

End System Time for SVM is 1493359303330

Image Segmentation

Dimensions : 19 Classes : 7

Training : 210 (9%) Test : 2100



	Class				
Variable	region1	region2	region3	region4	region5
region-centroid-col	0.2439	-0.182		-0.0077	
region-centroid-row	0.2748	0.3484	0.1287	0.0118	0.7363
short-line-density-5	-104.1412	-572.3421	-69.6341	-23.547	-266.4772
short-line-density-2	-391.7592	-960.795	977.5752	222.5491	374.6997
vedge-mean	1.83	-7.4575	4.7561	1.3601	3.7736
vegde-sd	-7.6669	1.3548	1.0915	1.3266	-3.5663
hedge-mean	-1.642	-13.1993	4.0727	0.8506	-11.7453
hedge-sd	-13.6386	1.0412	0.6874	0.6819	-2.008
intensity-mean	0.3281	0.4997	-3.411	0.6365	1.4676
rawred-mean	0.4041	0.7202	-4.0244	0.7717	1.964
rawblue-mean	0.0916	0.2751	-2.8027	0.5253	1.0399
rawgreen-mean	0.5785	0.5899	-3.526	0.6352	1.5395
exred-mean	0.3948	3.4828	0.6927	0.4478	6.0793
exblue-mean	-2.3837	-1.6228	-2.6614	0.5311	-1.322
exgreen-mean	6.4422	1.1577	6.9382	-1.9764	-2.3174
value-mean	-11.8934	0.8344	5.2888	0.8723	-0.4643
saturation-mean	345.4979	319.8386	244.6546	-73.339	649.3814
hue-mean	3.3668	-2.9549	-28.2718	-24.3891	17.6013
class=brickface	-325.6713	-76.8359	-268.6299	9.8723	-51.939
class=sky	1214.7802	171.375	670.6346	-217.3599	-17.7625
class=foliage	-297.3159	-67.7099	-156.7952	-5.1791	-36.0543
class=cement	-243.9053	-76.7416	-90.7626	-8.7579	20.3831
class=window	-281.0321	-25.1409	-127.9373	7.274	-191.6191
class=path	110.648	-30.1278	-64.2431	-21.1161	-27.9465
class=grass	-177.5036	105.181	37.7335	235.2667	304.9383
Intercept	303.9777	-130.8818	53.5989	-201.9763	-475.935
Odds Ratios					
Variable	Class region1	region2	region3	region4	region5
region-centroid-col	1.2762	0.8336	1.266	0.9923	1.3976
region-centroid-row	1.3162	1.4168	1.1373	1.0119	2.0883
short-line-density-5	0	0	0	0	0
short-line-density-2	0	0	Infinity	4.48591798159259E96	5.370435613466451E162
vedge-mean	6.2336	0.0006	116.2874	3.8964	43.5352
vegde-sd	0.0005	3.876	2.9788	3.7683	0.0283
hedge-mean	0.1936	0	58.7155	2.3411	0
hedge-sd	0	2.8327	1.9885	1.9776	0.1343
intensity-mean	1.3884	1.6482	0.033	1.8899	4.339
rawred-mean	1.4979	2.0549	0.0179	2.1633	7.1275
rawblue-mean	1.0959	1.3166	0.0606	1.6909	2.8289
rawgreen-mean	1.7833	1.8038	0.0294	1.8874	4.6621
exred-mean	1.4842	32.5515	1.9991	1.5649	436.7239
exblue-mean	0.0922	0.1973	0.0698	1.7008	0.2666
exgreen-mean	627.7675	3.1825	1030.9406	0.1386	0.0985
value-mean	0	2.3033	198.1133	2.3925	0.6286
saturation-mean	1.1164024656976971E150	8.019340081572327E138	1.7870576342529216E106	0	1.0537916265667314E282
hue-mean	28.9845	0.0521	0	0	44070995.1672
class=brickface	0	0	0	19385.3639	0
class=sky	Infinity	2.6744124456361775E74	1.7901869417660956E291	0	0
class=foliage	0	0	0	0.0056	0
class=cement	0	0	0	0.0002	711619278.3859
class=window	0	0	0	1442.3261	0
class=path	1.1319714875128853E48	0	0	0	0
class=grass	0	4.781078726752334E45	2.4404117430530024E16	1.4962726484219859E102	2./103880696859148E132
C1433-61 433					

Time taken to build model: 4.79 seconds

Correctly Classified Instances	1948	92.7619 %	
Incorrectly Classified Instances	152	7.2381 %	
Kappa statistic	0.9046		
Mean absolute error	0.0237		
Root mean squared error	0.1486		
Relative absolute error	9.4419 %		
Root relative squared error	41.6376 %		

```
a b c d e f <-- classified as 290 0 4 2 1 2 | a = region1 0 300 2 0 0 0 | b = region2 0 3 481 26 4 9 | c = region3 0 0 3 747 3 1 | d = region4 1 2 9 12 75 39 | e = region5 0 0 18 0 11 55 | f = region6
```

AdaBoost

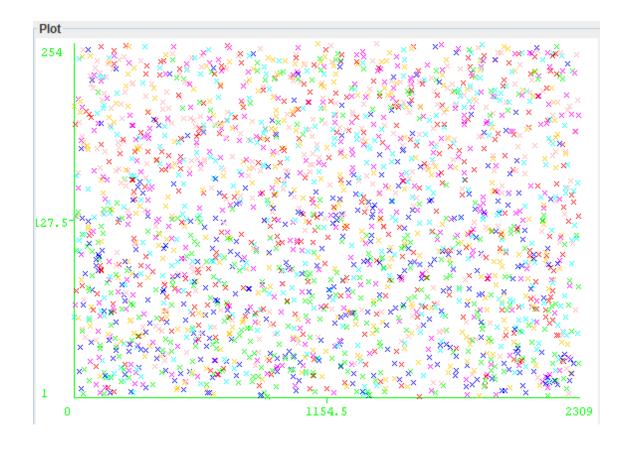
Start System Time is 1493359652759

Correctly Classified Instances	593	28.2381 %
Incorrectly Classified Instances	1507	71.7619 %
Kappa statistic	0.1639	
Mean absolute error	0.2056	
Root mean squared error	0.3216	
Relative absolute error	83.9397 %	
Root relative squared error	91.8121 %	
Total Number of Instances	2100	

=== Confusion Matrix ===

```
a b c d e f g <-- classified as
0 0 0 298 0 0 | a = brickface
0 0 0 0 306 0 0 | b = sky
0 0 0 0 298 0 0 | c = foliage
0 0 0 0 295 5 0 | d = cement
0 0 0 0 297 0 0 | e = window
0 0 0 0 3 296 0 | f = path
0 0 0 0 14 288 0 | g = grass
```

End System Time is 1493359653111

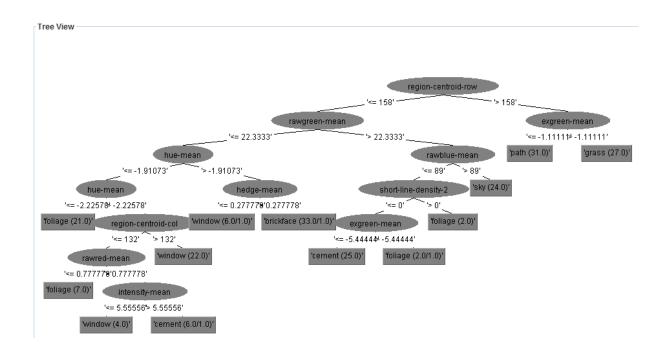


Start System Time for Decision Tree is 1493359658632

Correctly Classified Instances	1906	90.7619 %
Incorrectly Classified Instances	194	9.2381 %
Kappa statistic	0.8922	
Mean absolute error	0.0275	
Root mean squared error	0.1532	
Relative absolute error	11.2138 %	
Root relative squared error	43.7412 %	
Total Number of Instances	2100	

а	b	С	d	e	f	g	< classified as
290	0	0	2	6	0	0	a = brickface
0	306	0	0	0	0	0	b = sky
5	1	240	15	37	0	0	c = foliage
3	2	7	272	7	9	0	d = cement
8	0	21	55	213	0	0	e = window
0	0	0	0	0	299	0	f = path
2	0	12	0	0	2	286	g = grass

End System Time for Decision Tree is 1493359658916



Polynomial

Start System Time for SVM is 14933	59870806	
Correctly Classified Instances	297	14.1429 %
Incorrectly Classified Instances	1803	85.8571 %
Kappa statistic	0	
Mean absolute error	0.2453	
Root mean squared error	0.4953	
Relative absolute error	100.1518 %	
Root relative squared error	141.4166 %	
Total Number of Instances	2100	

=== Confusion Matrix ===

a	b	С	d	e	f	g	< classified as
0	0	0	0 2	298	0	0	a = brickface
0	0	0	0 3	306	0	0	b = sky
0	0	0	0 2	298	0	0	c = foliage
0	0	0	0 3	300	0	0	d = cement
0	0	0	0 2	297	0	0	e = window
0	0	0	0 2	299	0	0	f = path
0	0	0	0 3	302	0	0	g = grass

End System Time for SVM is 1493359871330

RBF

Start System Time for SVM is 1493	359661266	
Correctly Classified Instances	1753	83.4762 %
Incorrectly Classified Instances	347	16.5238 %
Kappa statistic	0.8072	
Mean absolute error	0.0472	
Root mean squared error	0.2173	
Relative absolute error	19.2749 %	

а	b	С	d	е	f	g	< classified as
226	0	8	7	57	0	0	a = brickface
0	306	0	0	0	0	0	b = sky
23	0	220	7	48	0	0	c = foliage
17	0	6	208	10	59	0	d = cement
36	0	46	20	195	0	0	e = window
0	0	0	0	0	299	0	f = path
1	0	2	0	0	0	299	g = grass

End System Time for SVM is 1493359663352