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1 /usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py
2 yeast1: nu=0.1, gamma=3
3 data size: 1484
4 break_count: 1464
5 train_size: 125.0
6 singular matrix
7 Confusion matrix:
8 [[393 36]
9  [949 106]]
10 precision: 0.746478873239, recall: 0.100473933649, f1-score: 0.177109440267
11 -----
12 Confusion matrix:
13 Prediction -1 1
14 Target
15 -1      392 37
16 1      943 112
17 precision: 0.751677852349, recall: 0.106161137441, f1-score: 0.186046511628
18 -----
19 Confusion matrix:
20 Prediction -1 1
21 Target
22 -1      393 36
23 1      942 113
24 precision: 0.758389261745, recall: 0.107109004739, f1-score: 0.187707641196
25
26 *** PROFILER RESULTS ***
27 incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
28 )
29 function called 1 times
30
31      28244 function calls in 1.337 seconds
32
33 Ordered by: cumulative time, internal time, call count
34 List reduced from 136 to 40 due to restriction <40>
35
36 ncalls  tottime  percall  cumtime  percall  filename:lineno(function)
37 1      0.000  0.000  1.337  1.337  evaluation_2.py:145(incremental_ocsvm)
38 1      1.187  1.187  1.323  1.323  ocsvm.py:98(increment)
39 3931   0.040  0.000  0.040  0.000  {min}
40 2      0.000  0.000  0.039  0.019  ocsvm.py:58(gram)
41 2      0.000  0.000  0.039  0.019  pairwise.py:1164(pairwise_kernels)
42 2      0.000  0.000  0.039  0.019  pairwise.py:949(_parallel_pairwise)
43 2      0.015  0.007  0.039  0.019  pairwise.py:740(rbf_kernel)
44 4069   0.027  0.000  0.027  0.000  {method 'dot' of 'numpy.ndarray' objects}
45 2      0.010  0.005  0.024  0.012  pairwise.py:136(euclidean_distances)
46 1      0.000  0.000  0.015  0.015  ocsvm.py:35(fit)
47 1      0.001  0.001  0.014  0.014  ocsvm.py:62(alpha)
48 2      0.000  0.000  0.014  0.007  extmath.py:171(safe_sparse_dot)
49 2      0.014  0.007  0.014  0.007  {numpy.core._dotblas.dot}
50 1      0.000  0.000  0.013  0.013  coneprog.py:4159(qp)
51 1      0.001  0.001  0.012  0.012  coneprog.py:1441(coneqp)
52 348    0.006  0.000  0.009  0.000  numeric.py:966(outer)
53 12     0.000  0.000  0.007  0.001  coneprog.py:1984(kktsolver)
54 12     0.001  0.000  0.007  0.001  misc.py:1389(factor)
55 3896   0.006  0.000  0.006  0.000  {numpy.core.multiarray.where}
56 512    0.001  0.000  0.005  0.000  numeric.py:136(ones)
57 1114   0.004  0.000  0.004  0.000  {method 'remove' of 'list' objects}
58 1495   0.004  0.000  0.004  0.000  {numpy.core.multiarray.empty}
59 12     0.003  0.000  0.003  0.000  {cvxopt.base.syrk}

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59 512 0.002 0.000 0.002 0.000 {numpy.core.multiarray.copyto}
60 24 0.002 0.000 0.002 0.000 {cvxopt.lapack.potrf}
61 702 0.001 0.000 0.002 0.000 numeric.py:392(asarray)
62 22 0.000 0.000 0.001 0.000 coneprog.py:2333(f4)
63 22 0.000 0.000 0.001 0.000 coneprog.py:2291(f4_no_ir)
64 721 0.001 0.000 0.001 0.000 {numpy.core.multiarray.array}
65 635 0.001 0.000 0.001 0.000 {numpy.core.multiarray.zeros}
66 1947 0.001 0.000 0.001 0.000 {range}
67 23 0.000 0.000 0.001 0.000 misc.py:1489(solve)
68 140 0.001 0.000 0.001 0.000 {cvxopt.base.gemv}
69 697 0.001 0.000 0.001 0.000 {method 'ravel' of 'numpy.ndarray' objects}
70 12 0.001 0.000 0.001 0.000 {cvxopt.base.gemm}
71 3493 0.001 0.000 0.001 0.000 {method 'append' of 'list' objects}
72 1 0.001 0.001 0.001 0.001 misc.py:20(<module>)
73 2103 0.001 0.000 0.001 0.000 {len}
74 24 0.000 0.000 0.001 0.000 coneprog.py:1900(fG)
75 11 0.000 0.000 0.001 0.000 misc.py:422(update_scaling)
76
77
78
79 *** PROFILER RESULTS ***
80 cvxopt_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:141)
81 function called 1 times
82
83 2194 function calls in 3.265 seconds
84
85 Ordered by: cumulative time, internal time, call count
86 List reduced from 117 to 40 due to restriction <40>
87
88 ncalls tottime percall cumtime percall filename:lineno(function)
89 1 0.000 0.000 3.265 3.265 evaluation_2.py:141(cvxopt_ocsvm)
90 1 0.005 0.005 3.265 3.265 ocsvm.py:35(fit)
91 1 0.113 0.113 3.259 3.259 ocsvm.py:62(alpha)
92 1 0.003 0.003 3.079 3.079 coneprog.py:4159(qp)
93 1 0.004 0.004 3.076 3.076 coneprog.py:1441(coneqp)
94 11 0.000 0.000 2.920 0.265 coneprog.py:1984(kktsolver)
95 11 0.057 0.005 2.920 0.265 misc.py:1389(factor)
96 11 1.529 0.139 1.529 0.139 {cvxopt.base.syrk}
97 11 1.020 0.093 1.020 0.093 {cvxopt.base.gemm}
98 22 0.297 0.013 0.297 0.013 {cvxopt.lapack.potrf}
99 128 0.112 0.001 0.112 0.001 {cvxopt.base.gemv}
100 21 0.001 0.000 0.100 0.005 misc.py:1489(solve)
101 20 0.000 0.000 0.096 0.005 coneprog.py:2333(f4)
102 20 0.000 0.000 0.096 0.005 coneprog.py:2291(f4_no_ir)
103 2 0.000 0.000 0.042 0.021 ocsvm.py:58(gram)
104 2 0.000 0.000 0.042 0.021 pairwise.py:1164(pairwise_kernels)
105 2 0.000 0.000 0.042 0.021 pairwise.py:949(_parallel_pairwise)
106 2 0.018 0.009 0.042 0.021 pairwise.py:740(rbf_kernel)
107 22 0.000 0.000 0.038 0.002 coneprog.py:1900(fG)
108 22 0.000 0.000 0.038 0.002 misc.py:801(sgemv)
109 42 0.024 0.001 0.024 0.001 {cvxopt.blas.trsv}
110 2 0.011 0.006 0.024 0.012 pairwise.py:136(euclidean_distances)
111 2 0.000 0.000 0.020 0.010 shape_base.py:179(vstack)
112 2 0.019 0.010 0.019 0.010 {numpy.core.multiarray.concatenate}
113 11 0.016 0.001 0.016 0.001 {cvxopt.blas.trsm}
114 2 0.000 0.000 0.012 0.006 extmath.py:171(safe_sparse_dot)
115 2 0.012 0.006 0.012 0.006 {numpy.core._dotblas.dot}
116 11 0.000 0.000 0.007 0.001 coneprog.py:1847(fP)
117 11 0.007 0.001 0.007 0.001 {cvxopt.base.symv}

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118      2  0.003  0.001  0.005  0.002 twodim_base.py:221(diag)
119     10  0.002  0.000  0.003  0.000 misc.py:422(update_scaling)
120      4  0.002  0.001  0.002  0.001 {numpy.core.multiarray.zeros}
121      1  0.000  0.000  0.001  0.001 ocsvm.py:45(rho)
122     76  0.001  0.000  0.001  0.000 {range}
123     60  0.001  0.000  0.001  0.000 {cvxopt.misc_solvers.scale2}
124    185  0.001  0.000  0.001  0.000 {cvxopt.blas.axpy}
125     28  0.000  0.000  0.001  0.000 {numpy.core.multiarray.array}
126     19  0.000  0.000  0.000  0.000 numeric.py:462(asanyarray)
127      4  0.000  0.000  0.000  0.000 pairwise.py:57(check_pairwise_arrays)
128      1  0.000  0.000  0.000  0.000 misc.py:250(compute_scaling)
129
130
131
132 *** PROFILER RESULTS ***
133 sklearn_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:137)
134 function called 1 times
135
136      57 function calls in 0.011 seconds
137
138 Ordered by: cumulative time, internal time, call count
139
140      ncalls  tottime  percall  cumtime  percall filename:lineno(function)
141          1  0.000    0.000    0.011    0.011 evaluation_2.py:137(sklearn_ocsvm)
142          1  0.000    0.000    0.011    0.011 classes.py:941(fit)
143          1  0.000    0.000    0.011    0.011 base.py:99(fit)
144          1  0.000    0.000    0.011    0.011 base.py:211(_dense_fit)
145          1  0.011    0.011    0.011    0.011 {sklearn.svm.libsvm.fit}
146          1  0.000    0.000    0.000    0.000 validation.py:268(check_array)
147          1  0.000    0.000    0.000    0.000 validation.py:43(_assert_all_finite)
148          1  0.000    0.000    0.000    0.000 {method 'sum' of 'numpy.ndarray' objects}
149          1  0.000    0.000    0.000    0.000 _methods.py:23(_sum)
150          1  0.000    0.000    0.000    0.000 {method 'reduce' of 'numpy.ufunc' objects}
151          1  0.000    0.000    0.000    0.000 validation.py:126(_shape_repr)
152          1  0.000    0.000    0.000    0.000 numeric.py:136(ones)
153          1  0.000    0.000    0.000    0.000 {method 'randint' of 'mtrand.RandomState'
objects}
154          1  0.000    0.000    0.000    0.000 shape_base.py:60(atleast_2d)
155          1  0.000    0.000    0.000    0.000 base.py:193(_validate_targets)
156          1  0.000    0.000    0.000    0.000 {method 'join' of 'str' objects}
157          1  0.000    0.000    0.000    0.000 getlimits.py:244(__init__)
158          5  0.000    0.000    0.000    0.000 {numpy.core.multiarray.array}
159          2  0.000    0.000    0.000    0.000 numeric.py:392(asarray)
160          3  0.000    0.000    0.000    0.000 validation.py:153(<genexpr>)
161          2  0.000    0.000    0.000    0.000 {numpy.core.multiarray.empty}
162          1  0.000    0.000    0.000    0.000 {method 'copy' of 'numpy.ndarray' objects}
163          1  0.000    0.000    0.000    0.000 {numpy.core.multiarray.copyto}
164          2  0.000    0.000    0.000    0.000 numeric.py:462(asanyarray)
165          1  0.000    0.000    0.000    0.000 validation.py:105(_num_samples)
166          3  0.000    0.000    0.000    0.000 {hasattr}
167          1  0.000    0.000    0.000    0.000 {sklearn.svm.libsvm.set_verbosity_wrap}
168          1  0.000    0.000    0.000    0.000 validation.py:503(check_random_state)
169          2  0.000    0.000    0.000    0.000 base.py:702(isspmatrix)
170          3  0.000    0.000    0.000    0.000 {isinstance}
171          2  0.000    0.000    0.000    0.000 {callable}
172          1  0.000    0.000    0.000    0.000 base.py:203(_warn_from_fit_status)
173          6  0.000    0.000    0.000    0.000 {len}
174          1  0.000    0.000    0.000    0.000 getlimits.py:269(max)
175          1  0.000    0.000    0.000    0.000 {method 'index' of 'list' objects}

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176	1	0.000	0.000	0.000	0.000	{method 'append' of 'list' objects}
177	1	0.000	0.000	0.000	0.000	{method 'disable' of '_lsprof.Profiler' objects}
178	0	0.000		0.000		profile:0(profiler)
179						
180						
181						
182						Process finished with exit code 0
183						