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1 /usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py
2 yeast1: nu=0.5, gamma=0.1
3 data size: 1484
4 break_count: 1464
5 train_size: 625.0
6 singular matrix
7 Confusion matrix:
8 [[223 206]
9  [511 544]]
10 precision: 0.725333333333, recall: 0.515639810427, f1-score: 0.602770083102
11 -----
12 Confusion matrix:
13 Prediction -1  1
14 Target
15 -1      192 237
16  1      432 623
17 precision: 0.724418604651, recall: 0.590521327014, f1-score: 0.650652741514
18 -----
19 Confusion matrix:
20 Prediction -1  1
21 Target
22 -1      222 207
23  1      509 546
24 precision: 0.725099601594, recall: 0.517535545024, f1-score: 0.603982300885
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      57040 function calls in 6.678 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   6.678   6.678  evaluation_2.py:145(incremental_ocsvm)
38      1   5.706   5.706   6.033   6.033  ocsvm.py:98(increment)
39      1   0.002   0.002   0.646   0.646  ocsvm.py:35(fit)
40      1   0.027   0.027   0.644   0.644  ocsvm.py:62(alpha)
41      1   0.001   0.001   0.602   0.602  coneprog.py:4159(qp)
42      1   0.005   0.005   0.601   0.601  coneprog.py:1441(coneqp)
43     13   0.000   0.000   0.536   0.041  coneprog.py:1984(kktsolver)
44     13   0.016   0.001   0.535   0.041  misc.py:1389(factor)
45     13   0.231   0.018   0.231   0.018  {cvxopt.base.gemm}
46     13   0.223   0.017   0.223   0.017  {cvxopt.base.syrk}
47    7839   0.138   0.000   0.138   0.000  {min}
48   6496   0.070   0.000   0.070   0.000  {method 'dot' of 'numpy.ndarray' objects}
49     26   0.058   0.002   0.058   0.002  {cvxopt.lapack.potrf}
50      2   0.000   0.000   0.048   0.024  ocsvm.py:58(gram)
51      2   0.000   0.000   0.048   0.024  pairwise.py:1164(pairwise_kernels)
52      2   0.000   0.000   0.048   0.024  pairwise.py:949(_parallel_pairwise)
53      2   0.018   0.009   0.048   0.024  pairwise.py:740(rbf_kernel)
54     152   0.041   0.000   0.041   0.000  {cvxopt.base.gemv}
55     24   0.000   0.000   0.038   0.002  coneprog.py:2333(f4)
56     25   0.001   0.000   0.038   0.002  misc.py:1489(solve)
57     24   0.000   0.000   0.037   0.002  coneprog.py:2291(f4_no_ir)
58      2   0.013   0.007   0.030   0.015  pairwise.py:136(euclidean_distances)
59     2484   0.017   0.000   0.017   0.000  {method 'remove' of 'list' objects}

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59 681 0.013 0.000 0.017 0.000 numeric.py:966(outer)
60 2 0.000 0.000 0.017 0.008 extmath.py:171(safe_sparse_dot)
61 2 0.017 0.008 0.017 0.008 {numpy.core._dotblas.dot}
62 7588 0.014 0.000 0.014 0.000 {numpy.core.multiarray.where}
63 26 0.000 0.000 0.014 0.001 coneprog.py:1900(fG)
64 26 0.000 0.000 0.013 0.001 misc.py:801(sgemv)
65 1170 0.003 0.000 0.011 0.000 numeric.py:136(ones)
66 9861 0.009 0.000 0.009 0.000 {range}
67 50 0.008 0.000 0.008 0.000 {cvxopt.blas.trsv}
68 3117 0.008 0.000 0.008 0.000 {numpy.core.multiarray.empty}
69 13 0.006 0.000 0.006 0.000 {cvxopt.blas.trsm}
70 1170 0.005 0.000 0.005 0.000 {numpy.core.multiarray.copyto}
71 2 0.000 0.000 0.004 0.002 shape_base.py:179(vstack)
72 2 0.004 0.002 0.004 0.002 {numpy.core.multiarray.concatenate}
73 1309 0.003 0.000 0.003 0.000 {numpy.core.multiarray.zeros}
74 1368 0.001 0.000 0.003 0.000 numeric.py:392(asarray)
75 2 0.003 0.001 0.003 0.001 linalg.py:454(inv)
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 2026 function calls in 7.713 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 percalle cumtime percalle filename:lineno(function)
89 1 0.000 0.000 7.713 7.713 evaluation_2.py:141(cvxopt_ocsvm)
90 1 0.018 0.018 7.713 7.713 ocsvm.py:35(fit)
91 1 0.229 0.229 7.640 7.640 ocsvm.py:62(alpha)
92 1 0.007 0.007 7.282 7.282 coneprog.py:4159(qp)
93 1 0.004 0.004 7.274 7.274 coneprog.py:1441(coneqp)
94 10 0.000 0.000 7.015 0.701 coneprog.py:1984(kktsolver)
95 10 0.106 0.011 7.015 0.701 misc.py:1389(factor)
96 10 4.105 0.410 4.105 0.410 {cvxopt.base.syrk}
97 10 2.027 0.203 2.027 0.203 {cvxopt.base.gemm}
98 20 0.744 0.037 0.744 0.037 {cvxopt.lapack.potrf}
99 116 0.192 0.002 0.192 0.002 {cvxopt.base.gemv}
100 19 0.001 0.000 0.168 0.009 misc.py:1489(solve)
101 18 0.000 0.000 0.161 0.009 coneprog.py:2333(f4)
102 18 0.000 0.000 0.161 0.009 coneprog.py:2291(f4_no_ir)
103 2 0.000 0.000 0.140 0.070 ocsvm.py:58(gram)
104 2 0.000 0.000 0.140 0.070 pairwise.py:1164(pairwise_kernels)
105 2 0.000 0.000 0.140 0.070 pairwise.py:949(_parallel_pairwise)
106 2 0.060 0.030 0.140 0.070 pairwise.py:740(rbf_kernel)
107 2 0.036 0.018 0.080 0.040 pairwise.py:136(euclidean_distances)
108 20 0.000 0.000 0.066 0.003 coneprog.py:1900(fG)
109 20 0.000 0.000 0.066 0.003 misc.py:801(sgemv)
110 1 0.000 0.000 0.055 0.055 ocsvm.py:45(rho)
111 2 0.000 0.000 0.044 0.022 extmath.py:171(safe_sparse_dot)
112 2 0.043 0.022 0.043 0.022 {numpy.core._dotblas.dot}
113 38 0.041 0.001 0.041 0.001 {cvxopt.blas.trsv}
114 10 0.031 0.003 0.031 0.003 {cvxopt.blas.trsm}
115 2 0.000 0.000 0.030 0.015 shape_base.py:179(vstack)
116 2 0.030 0.015 0.030 0.015 {numpy.core.multiarray.concatenate}
117 2 0.004 0.002 0.012 0.006 twodim_base.py:221(diag)

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118	10	0.000	0.000	0.011	0.001	coneprog.py:1847(fP)
119	10	0.011	0.001	0.011	0.001	{cvxopt.base.symv}
120	4	0.009	0.002	0.009	0.002	{numpy.core.multiarray.zeros}
121	9	0.003	0.000	0.004	0.000	misc.py:422(update_scaling)
122	1	0.001	0.001	0.001	0.001	{method 'dot' of 'numpy.ndarray' objects}
123	69	0.001	0.000	0.001	0.000	{range}
124	54	0.001	0.000	0.001	0.000	{cvxopt.misc_solvers.scale2}
125	167	0.001	0.000	0.001	0.000	{cvxopt.blas.axpy}
126	2	0.000	0.000	0.001	0.000	data.py:29(Xs)
127	4	0.000	0.000	0.001	0.000	pairwise.py:57(check_pairwise_arrays)
128	20	0.001	0.000	0.001	0.000	{cvxopt.base.sqrt}
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 0.041 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	0.041	0.041	evaluation_2.py:137(sklearn_ocsvm)
142	1	0.000	0.000	0.041	0.041	classes.py:941(fit)
143	1	0.000	0.000	0.041	0.041	base.py:99(fit)
144	1	0.000	0.000	0.041	0.041	base.py:211(_dense_fit)
145	1	0.041	0.041	0.041	0.041	{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	_methods.py:23(_sum)
149	1	0.000	0.000	0.000	0.000	{method 'sum' of 'numpy.ndarray' objects}
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	base.py:193(_validate_targets)
155	1	0.000	0.000	0.000	0.000	shape_base.py:60(atleast_2d)
156	1	0.000	0.000	0.000	0.000	{method 'join' of 'str' objects}
157	5	0.000	0.000	0.000	0.000	{numpy.core.multiarray.array}
158	1	0.000	0.000	0.000	0.000	getlimits.py:244(__init__)
159	2	0.000	0.000	0.000	0.000	numeric.py:392(asarray)
160	2	0.000	0.000	0.000	0.000	{numpy.core.multiarray.empty}
161	1	0.000	0.000	0.000	0.000	{method 'copy' of 'numpy.ndarray' objects}
162	3	0.000	0.000	0.000	0.000	validation.py:153(<genexpr>)
163	1	0.000	0.000	0.000	0.000	{sklearn.svm.libsvm.set_verbosity_wrap}
164	1	0.000	0.000	0.000	0.000	{numpy.core.multiarray.copyto}
165	2	0.000	0.000	0.000	0.000	numeric.py:462(asanyarray)
166	1	0.000	0.000	0.000	0.000	validation.py:105(_num_samples)
167	2	0.000	0.000	0.000	0.000	base.py:702(isspmatrix)
168	6	0.000	0.000	0.000	0.000	{len}
169	3	0.000	0.000	0.000	0.000	{hasattr}
170	2	0.000	0.000	0.000	0.000	{callable}
171	1	0.000	0.000	0.000	0.000	base.py:203(_warn_from_fit_status)
172	1	0.000	0.000	0.000	0.000	validation.py:503(check_random_state)
173	1	0.000	0.000	0.000	0.000	getlimits.py:269(max)
174	1	0.000	0.000	0.000	0.000	{method 'append' of 'list' objects}
175	1	0.000	0.000	0.000	0.000	{method 'disable' of '_lsprof.Profiler' objects}

176	1	0.000	0.000	0.000	0.000	{method 'index' of 'list' objects}
177	3	0.000	0.000	0.000	0.000	{isinstance}
178	0	0.000		0.000		profile:0(profiler)
179						
180						
181						
182						Process finished with exit code 0
183						