```
 1  /usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py
 2  ecoli1: nu=0.9, gamma=30
 3  data size: 306
 4  break_count: 286
 5  train_size: 232.0
 6  Confusion matrix:
 7  [[  8  73]
 8   [ 22 203]]
 9  precision: 0.735507246377, recall: 0.902222222222, f1-score: 0.810379241517
10  --------
11  Confusion matrix:
12  Prediction  -1    1
13  Target
14  -1        8  73
15  1        22  203
16  precision: 0.735507246377, recall: 0.902222222222, f1-score: 0.810379241517
17  ---------
18  Confusion matrix:
19  Prediction  -1    1
20  Target
21  -1        8  73
22  1        22  203
23  precision: 0.735507246377, recall: 0.902222222222, f1-score: 0.810379241517
24
25  *** PROFILER RESULTS ***
26  incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
    )
27  function called 1 times
28
29         4002 function calls in 0.079 seconds
30
31     Ordered by: cumulative time, internal time, call count
32     List reduced from 135 to 40 due to restriction <40>
33
34     ncalls  tottime  percall  cumtime  percall filename:lineno(function)
35        1    0.000    0.000    0.079    0.079 evaluation_2.py:145(incremental_ocsvm)
36        1    0.000    0.000    0.048    0.048 ocsvm.py:35(fit)
37        1    0.002    0.002    0.047    0.047 ocsvm.py:62(alpha)
38        1    0.000    0.000    0.043    0.043 coneprog.py:4159(qp)
39        1    0.002    0.002    0.043    0.043 coneprog.py:1441(coneqp)
40        1    0.027    0.027    0.032    0.032 ocsvm.py:98(increment)
41       13    0.000    0.000    0.030    0.002 coneprog.py:1984(kktsolver)
42       13    0.002    0.000    0.030    0.002 misc.py:1389(factor)
43       13    0.015    0.001    0.015    0.001 {cvxopt.base.syrk}
44       26    0.006    0.000    0.006    0.000 {cvxopt.lapack.potrf}
45       13    0.006    0.000    0.006    0.000 {cvxopt.base.gemm}
46      152    0.005    0.000    0.005    0.000 {cvxopt.base.gemv}
47       24    0.000    0.000    0.004    0.000 coneprog.py:2333(f4)
48       24    0.000    0.000    0.004    0.000 coneprog.py:2291(f4_no_ir)
49       25    0.000    0.000    0.004    0.000 misc.py:1489(solve)
50        2    0.000    0.000    0.003    0.002 ocsvm.py:58(gram)
51        2    0.000    0.000    0.003    0.002 pairwise.py:1164(pairwise_kernels)
52        2    0.000    0.000    0.003    0.002 pairwise.py:949(_parallel_pairwise)
53        2    0.001    0.001    0.003    0.002 pairwise.py:740(rbf_kernel)
54       26    0.000    0.000    0.002    0.000 coneprog.py:1900(fG)
55       26    0.000    0.000    0.002    0.000 misc.py:801(sgemv)
56        2    0.001    0.000    0.002    0.001 pairwise.py:136(euclidean_distances)
57      224    0.001    0.000    0.001    0.000 {min}
58       12    0.001    0.000    0.001    0.000 misc.py:422(update_scaling)
```

59	2	0.000	0.000	0.001	0.000 shape_base.py:179(vstack)
60	146	0.001	0.000	0.001	0.000 {method 'dot' of 'numpy.ndarray' objects}
61	50	0.001	0.000	0.001	0.000 {cvxopt.blas.trsv}
62	1	0.001	0.001	0.001	0.001 misc.py:20(<module>)
63	2	0.001	0.000	0.001	0.000 {numpy.core.multiarray.concatenate}
64	2	0.000	0.000	0.001	0.000 extmath.py:171(safe_sparse_dot)
65	2	0.001	0.000	0.001	0.000 {numpy.core._dotblas.dot}
66	13	0.000	0.000	0.000	0.000 {cvxopt.blas.trsm}
67	13	0.000	0.000	0.000	0.000 coneprog.py:1847(fP)
68	13	0.000	0.000	0.000	0.000 {cvxopt.base.symv}
69	49	0.000	0.000	0.000	0.000 {numpy.core.multiarray.array}
70	4	0.000	0.000	0.000	0.000 pairwise.py:57(check_pairwise_arrays)
71	40	0.000	0.000	0.000	0.000 numeric.py:136(ones)
72	221	0.000	0.000	0.000	0.000 {cvxopt.blas.axpy}
73	8	0.000	0.000	0.000	0.000 shape_base.py:60(atleast_2d)
74	15	0.000	0.000	0.000	0.000 numeric.py:462(asanyarray)
75					
76					
77					

78 *** PROFILER RESULTS ***
79 cvxopt_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:141)
80 function called 1 times
81
82   2530 function calls in 0.360 seconds
83
84   Ordered by: cumulative time, internal time, call count
85   List reduced from 117 to 40 due to restriction <40>
86

	ncalls	tottime	percall	cumtime	percall filename:lineno(function)
87					
88	1	0.000	0.000	0.360	0.360 evaluation_2.py:141(cvxopt_ocsvm)
89	1	0.001	0.001	0.360	0.360 ocsvm.py:35(fit)
90	1	0.011	0.011	0.358	0.358 ocsvm.py:62(alpha)
91	1	0.000	0.000	0.338	0.338 coneprog.py:4159(qp)
92	1	0.003	0.003	0.338	0.338 coneprog.py:1441(coneqp)
93	13	0.000	0.000	0.299	0.023 coneprog.py:1984(kktsolver)
94	13	0.010	0.001	0.299	0.023 misc.py:1389(factor)
95	13	0.133	0.010	0.133	0.010 {cvxopt.base.gemm}
96	13	0.126	0.010	0.126	0.010 {cvxopt.base.syrk}
97	26	0.028	0.001	0.028	0.001 {cvxopt.lapack.potrf}
98	152	0.023	0.000	0.023	0.000 {cvxopt.base.gemv}
99	24	0.000	0.000	0.021	0.001 coneprog.py:2333(f4)
100	25	0.001	0.000	0.021	0.001 misc.py:1489(solve)
101	24	0.000	0.000	0.021	0.001 coneprog.py:2291(f4_no_ir)
102	26	0.000	0.000	0.008	0.000 coneprog.py:1900(fG)
103	26	0.000	0.000	0.007	0.000 misc.py:801(sgemv)
104	2	0.000	0.000	0.006	0.003 ocsvm.py:58(gram)
105	2	0.000	0.000	0.006	0.003 pairwise.py:1164(pairwise_kernels)
106	2	0.000	0.000	0.006	0.003 pairwise.py:949(_parallel_pairwise)
107	2	0.002	0.001	0.006	0.003 pairwise.py:740(rbf_kernel)
108	50	0.004	0.000	0.004	0.000 {cvxopt.blas.trsv}
109	2	0.001	0.001	0.003	0.002 pairwise.py:136(euclidean_distances)
110	2	0.000	0.000	0.003	0.001 shape_base.py:179(vstack)
111	13	0.002	0.000	0.002	0.000 {cvxopt.blas.trsm}
112	2	0.002	0.001	0.002	0.001 {numpy.core.multiarray.concatenate}
113	12	0.001	0.000	0.002	0.000 misc.py:422(update_scaling)
114	2	0.000	0.000	0.002	0.001 extmath.py:171(safe_sparse_dot)
115	2	0.002	0.001	0.002	0.001 {numpy.core._dotblas.dot}
116	13	0.000	0.000	0.001	0.000 coneprog.py:1847(fP)
117	13	0.001	0.000	0.001	0.000 {cvxopt.base.symv}

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118    2    0.001    0.000    0.001    0.000 twodim_base.py:221(diag)
119    1    0.000    0.000    0.001    0.001 ocsvm.py:45(rho)
120  221    0.001    0.000    0.001    0.000 {cvxopt.blas.axpy}
121   72    0.000    0.000    0.000    0.000 {cvxopt.misc_solvers.scale2}
122   90    0.000    0.000    0.000    0.000 {range}
123    4    0.000    0.000    0.000    0.000 pairwise.py:57(check_pairwise_arrays)
124   28    0.000    0.000    0.000    0.000 {numpy.core.multiarray.array}
125    6    0.000    0.000    0.000    0.000 validation.py:268(check_array)
126   19    0.000    0.000    0.000    0.000 numeric.py:462(asanyarray)
127   73    0.000    0.000    0.000    0.000 {cvxopt.misc_solvers.scale}
128
129
130
131 *** PROFILER RESULTS ***
132 sklearn_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:137)
133 function called 1 times
134
135        57 function calls in 0.003 seconds
136
137    Ordered by: cumulative time, internal time, call count
138
139    ncalls  tottime  percall  cumtime  percall filename:lineno(function)
140    1    0.000    0.000    0.003    0.003 evaluation_2.py:137(sklearn_ocsvm)
141    1    0.000    0.000    0.003    0.003 classes.py:941(fit)
142    1    0.000    0.000    0.003    0.003 base.py:99(fit)
143    1    0.000    0.000    0.003    0.003 base.py:211(_dense_fit)
144    1    0.003    0.003    0.003    0.003 {sklearn.svm.libsvm.fit}
145    1    0.000    0.000    0.000    0.000 validation.py:268(check_array)
146    1    0.000    0.000    0.000    0.000 validation.py:43(_assert_all_finite)
147    1    0.000    0.000    0.000    0.000 base.py:193(_validate_targets)
148    1    0.000    0.000    0.000    0.000 numeric.py:136(ones)
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 validation.py:126(_shape_repr)
151    1    0.000    0.000    0.000    0.000 _methods.py:23(_sum)
152    1    0.000    0.000    0.000    0.000 {method 'randint' of 'mtrand.RandomState'
       objects}
153    1    0.000    0.000    0.000    0.000 {method 'reduce' of 'numpy.ufunc' objects}
154    1    0.000    0.000    0.000    0.000 shape_base.py:60(atleast_2d)
155    2    0.000    0.000    0.000    0.000 {numpy.core.multiarray.empty}
156    1    0.000    0.000    0.000    0.000 {method 'join' of 'str' objects}
157    2    0.000    0.000    0.000    0.000 numeric.py:392(asarray)
158    5    0.000    0.000    0.000    0.000 {numpy.core.multiarray.array}
159    1    0.000    0.000    0.000    0.000 {numpy.core.multiarray.copyto}
160    1    0.000    0.000    0.000    0.000 getlimits.py:244(__init__)
161    2    0.000    0.000    0.000    0.000 numeric.py:462(asanyarray)
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    2    0.000    0.000    0.000    0.000 base.py:702(isspmatrix)
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 {method 'copy' of 'numpy.ndarray' objects}
168    3    0.000    0.000    0.000    0.000 {isinstance}
169    1    0.000    0.000    0.000    0.000 base.py:203(_warn_from_fit_status)
170    1    0.000    0.000    0.000    0.000 getlimits.py:269(max)
171    1    0.000    0.000    0.000    0.000 validation.py:503(check_random_state)
172    1    0.000    0.000    0.000    0.000 {method 'index' of 'list' objects}
173    6    0.000    0.000    0.000    0.000 {len}
174    2    0.000    0.000    0.000    0.000 {callable}
175    1    0.000    0.000    0.000    0.000 {method 'append' of 'list' objects}
```

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