```
 1  /usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py
 2  pima: nu=0.5, gamma=0.1
 3  data size: 768
 4  break_count: 748
 5  train_size: 324.0
 6  Confusion matrix:
 7  [[117 151]
 8   [257 243]]
 9  precision: 0.616751269036, recall: 0.486, f1-score: 0.543624161074
10  --------
11  Confusion matrix:
12  Prediction   -1    1
13  Target
14  -1        114  154
15  1         246  254
16  precision: 0.622549019608, recall: 0.508, f1-score: 0.559471365639
17  ---------
18  Confusion matrix:
19  Prediction   -1    1
20  Target
21  -1        117  151
22  1         258  242
23  precision: 0.615776081425, recall: 0.484, f1-score: 0.541993281075
24
25  *** PROFILER RESULTS ***
26  incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
    )
27  function called 1 times
28
29       27151 function calls in 2.379 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    2.379    2.379 evaluation_2.py:145(incremental_ocsvm)
36       1    2.177    2.177    2.277    2.277 ocsvm.py:98(increment)
37       1    0.000    0.000    0.101    0.101 ocsvm.py:35(fit)
38       1    0.008    0.008    0.101    0.101 ocsvm.py:62(alpha)
39       1    0.000    0.000    0.087    0.087 coneprog.py:4159(qp)
40       1    0.002    0.002    0.087    0.087 coneprog.py:1441(coneqp)
41      10    0.000    0.000    0.072    0.007 coneprog.py:1984(kktsolver)
42      10    0.004    0.000    0.072    0.007 misc.py:1389(factor)
43    3640    0.038    0.000    0.038    0.000 {min}
44      10    0.034    0.003    0.034    0.003 {cvxopt.base.gemm}
45      10    0.025    0.003    0.025    0.003 {cvxopt.base.syrk}
46    3016    0.022    0.000    0.022    0.000 {method 'dot' of 'numpy.ndarray' objects}
47       2    0.000    0.000    0.013    0.006 ocsvm.py:58(gram)
48       2    0.000    0.000    0.013    0.006 pairwise.py:1164(pairwise_kernels)
49       2    0.000    0.000    0.013    0.006 pairwise.py:949(_parallel_pairwise)
50       2    0.005    0.003    0.013    0.006 pairwise.py:740(rbf_kernel)
51      20    0.008    0.000    0.008    0.000 {cvxopt.lapack.potrf}
52     116    0.007    0.000    0.007    0.000 {cvxopt.base.gemv}
53       2    0.003    0.001    0.007    0.004 pairwise.py:136(euclidean_distances)
54     299    0.005    0.000    0.007    0.000 numeric.py:966(outer)
55      18    0.000    0.000    0.006    0.000 coneprog.py:2333(f4)
56      18    0.000    0.000    0.006    0.000 coneprog.py:2291(f4_no_ir)
57      19    0.000    0.000    0.006    0.000 misc.py:1489(solve)
58    3514    0.006    0.000    0.006    0.000 {numpy.core.multiarray.where}
```

	ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
59	490	0.001	0.000	0.005	0.000	numeric.py:136(ones)
60	1064	0.004	0.000	0.004	0.000	{method 'remove' of 'list' objects}
61	2	0.000	0.000	0.004	0.002	extmath.py:171(safe_sparse_dot)
62	2	0.004	0.002	0.004	0.002	{numpy.core._dotblas.dot}
63	4844	0.004	0.000	0.004	0.000	{range}
64	1406	0.003	0.000	0.003	0.000	{numpy.core.multiarray.empty}
65	20	0.000	0.000	0.003	0.000	coneprog.py:1900(fG)
66	20	0.000	0.000	0.003	0.000	misc.py:801(sgemv)
67	490	0.002	0.000	0.002	0.000	{numpy.core.multiarray.copyto}
68	2	0.000	0.000	0.002	0.001	shape_base.py:179(vstack)
69	2	0.002	0.001	0.002	0.001	{numpy.core.multiarray.concatenate}
70	578	0.002	0.000	0.002	0.000	{numpy.core.multiarray.zeros}
71	602	0.001	0.000	0.001	0.000	numeric.py:392(asarray)
72	1	0.001	0.001	0.001	0.001	linalg.py:454(inv)
73	621	0.001	0.000	0.001	0.000	{numpy.core.multiarray.array}
74	38	0.001	0.000	0.001	0.000	{cvxopt.blas.trsv}
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   2194 function calls in 1.417 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	ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
88	1	0.000	0.000	1.417	1.417	evaluation_2.py:141(cvxopt_ocsvm)
89	1	0.004	0.004	1.417	1.417	ocsvm.py:35(fit)
90	1	0.059	0.059	1.408	1.408	ocsvm.py:62(alpha)
91	1	0.002	0.002	1.316	1.316	coneprog.py:4159(qp)
92	1	0.003	0.003	1.313	1.313	coneprog.py:1441(coneqp)
93	11	0.000	0.000	1.225	0.111	coneprog.py:1984(kktsolver)
94	11	0.028	0.003	1.225	0.111	misc.py:1389(factor)
95	11	0.601	0.055	0.601	0.055	{cvxopt.base.syrk}
96	11	0.454	0.041	0.454	0.041	{cvxopt.base.gemm}
97	22	0.132	0.006	0.132	0.006	{cvxopt.lapack.potrf}
98	128	0.061	0.000	0.061	0.000	{cvxopt.base.gemv}
99	21	0.001	0.000	0.054	0.003	misc.py:1489(solve)
100	20	0.000	0.000	0.052	0.003	coneprog.py:2333(f4)
101	20	0.000	0.000	0.052	0.003	coneprog.py:2291(f4_no_ir)
102	2	0.000	0.000	0.026	0.013	ocsvm.py:58(gram)
103	2	0.000	0.000	0.026	0.013	pairwise.py:1164(pairwise_kernels)
104	2	0.000	0.000	0.026	0.013	pairwise.py:949(_parallel_pairwise)
105	2	0.011	0.005	0.026	0.013	pairwise.py:740(rbf_kernel)
106	22	0.000	0.000	0.021	0.001	coneprog.py:1900(fG)
107	22	0.000	0.000	0.021	0.001	misc.py:801(sgemv)
108	2	0.007	0.003	0.015	0.008	pairwise.py:136(euclidean_distances)
109	42	0.012	0.000	0.012	0.000	{cvxopt.blas.trsv}
110	11	0.009	0.001	0.009	0.001	{cvxopt.blas.trsm}
111	2	0.000	0.000	0.009	0.004	extmath.py:171(safe_sparse_dot)
112	2	0.009	0.004	0.009	0.004	{numpy.core._dotblas.dot}
113	2	0.000	0.000	0.008	0.004	shape_base.py:179(vstack)
114	2	0.008	0.004	0.008	0.004	{numpy.core.multiarray.concatenate}
115	1	0.000	0.000	0.005	0.005	ocsvm.py:45(rho)
116	11	0.000	0.000	0.004	0.000	coneprog.py:1847(fP)
117	11	0.004	0.000	0.004	0.000	{cvxopt.base.symv}

```
118    2   0.002   0.001   0.003   0.001 twodim_base.py:221(diag)
119   10   0.002   0.000   0.002   0.000 misc.py:422(update_scaling)
120    4   0.001   0.000   0.001   0.000 {numpy.core.multiarray.zeros}
121   76   0.001   0.000   0.001   0.000 {range}
122   60   0.001   0.000   0.001   0.000 {cvxopt.misc_solvers.scale2}
123  185   0.001   0.000   0.001   0.000 {cvxopt.blas.axpy}
124    4   0.000   0.000   0.000   0.000 pairwise.py:57(check_pairwise_arrays)
125   28   0.000   0.000   0.000   0.000 {numpy.core.multiarray.array}
126    6   0.000   0.000   0.000   0.000 validation.py:268(check_array)
127   19   0.000   0.000   0.000   0.000 numeric.py:462(asanyarray)
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 0.013 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   0.013   0.013 evaluation_2.py:137(sklearn_ocsvm)
141    1   0.000   0.000   0.013   0.013 classes.py:941(fit)
142    1   0.000   0.000   0.013   0.013 base.py:99(fit)
143    1   0.000   0.000   0.012   0.012 base.py:211(_dense_fit)
144    1   0.012   0.012   0.012   0.012 {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 {method 'sum' of 'numpy.ndarray' objects}
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 'reduce' of 'numpy.ufunc' 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 numeric.py:136(ones)
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 shape_base.py:60(atleast_2d)
154    1   0.000   0.000   0.000   0.000 base.py:193(_validate_targets)
155    5   0.000   0.000   0.000   0.000 {numpy.core.multiarray.array}
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 {numpy.core.multiarray.empty}
158    2   0.000   0.000   0.000   0.000 numeric.py:392(asarray)
159    1   0.000   0.000   0.000   0.000 getlimits.py:244(__init__)
160    1   0.000   0.000   0.000   0.000 {numpy.core.multiarray.copyto}
161    3   0.000   0.000   0.000   0.000 validation.py:153(<genexpr>)
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 {sklearn.svm.libsvm.set_verbosity_wrap}
164    2   0.000   0.000   0.000   0.000 base.py:702(isspmatrix)
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    6   0.000   0.000   0.000   0.000 {len}
168    3   0.000   0.000   0.000   0.000 {hasattr}
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    3   0.000   0.000   0.000   0.000 {isinstance}
173    1   0.000   0.000   0.000   0.000 {method 'append' of 'list' objects}
174    1   0.000   0.000   0.000   0.000 {method 'index' of 'list' objects}
175    2   0.000   0.000   0.000   0.000 {callable}
```

```
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
```