```
/usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation 2.py
    pima: nu=0.75, gamma=10
    data size: 768
   break_count: 748
    train_size: 485.0
    Confusion matrix:
    [[ 65 203]
    [126 374]]
    precision: 0.648180242634, recall: 0.748, f1-score: 0.69452181987
10
11
    Confusion matrix:
12
    Prediction -1 1
13
    Target
14
            67 201
   -1
15
    1
            128 372
   precision: 0.649214659686, recall: 0.744, f1-score: 0.693383038211
16
17
18
   Confusion matrix:
19
    Prediction -1
20
    Target
21
22
    -1
            65 203
    1
            125 375
23
    precision: 0.648788927336, recall: 0.75, f1-score: 0.69573283859
24
25
    *** PROFILER RESULTS ***
26
    incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
27
    function called 1 times
28
29
         12516 function calls in 0.776 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
            0.000
                    0.000
         1
                           0.776
                                   0.776 evaluation_2.py:145(incremental_ocsvm)
36
         1
            0.390
                    0.390
                           0.444
                                   0.444 ocsvm.py:98(increment)
37
            0.001
                           0.332
                                   0.332 ocsvm.py:35(fit)
         1
                    0.001
38
                                   0.331 ocsvm.py:62(alpha)
         1
            0.013
                    0.013
                           0.331
                                   0.309 coneprog.py:4159(qp)
39
            0.000
                    0.000
                           0.309
         1
40
         1
                    0.003
                           0.309
                                   0.309 coneprog.py:1441(coneqp)
            0.003
                                    0.023 coneprog.py:1984(kktsolver)
41
        12
            0.000
                    0.000
                           0.272
42
        12
                            0.272
                                    0.023 misc.py:1389(factor)
            0.008
                    0.001
43
        12
             0.126
                    0.011
                            0.126
                                    0.011 {cvxopt.base.gemm}
44
        12
            0.109
                    0.009
                            0.109
                                    0.009 {cvxopt.base.syrk}
45
        24
             0.025
                    0.001
                            0.025
                                    0.001 {cvxopt.lapack.potrf}
46
       1552
             0.025
                     0.000
                             0.025
                                     0.000 \{ \min \}
47
       140
             0.022
                    0.000
                            0.022
                                    0.000 {cvxopt.base.gemv}
48
                                    0.001 coneprog.py:2333(f4)
        22
             0.000
                    0.000
                            0.020
        23
49
             0.001
                    0.000
                            0.019
                                    0.001 misc.py:1489(solve)
50
        22
            0.000
                    0.000 0.019
                                    0.001 coneprog.py:2291(f4_no_ir)
51
        2
2
2
2
            0.000
                    0.000 0.013
                                   0.007 ocsvm.py:58(gram)
52
            0.000
                    0.000
                           0.013
                                   0.007 pairwise.py:1164(pairwise_kernels)
53
            0.000
                    0.000
                           0.013
                                   0.007 pairwise.py:949(_parallel_pairwise)
54
                                   0.007 pairwise.py:740(rbf_kernel)
            0.006
                    0.003
                           0.013
55
                                     0.000 {method 'dot' of 'numpy.ndarray' objects}
             0.009 0.000 0.009
       1318
56
                            0.008
        24
            0.000
                    0.000
                                    0.000 coneprog.py:1900(fG)
        24
57
            0.000
                            0.007
                                    0.000 misc.py:801(sgemv)
                    0.000
58
         2
            0.003
                    0.002
                           0.007
                                   0.003 pairwise.py:136(euclidean_distances)
```

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```
0.004
                    0.000
                            0.004
                                    0.000 {cvxopt.blas.trsv}
 59
         46
 60
         2
             0.000
                    0.000
                            0.003
                                    0.002 extmath.py:171(safe sparse dot)
 61
                            0.003
             0.003
                    0.002
                                    0.002 {numpy.core._dotblas.dot}
                     0.000
                             0.003
 62
        138
             0.002
                                     0.000 numeric.py:966(outer)
                            0.003
 63
             0.000
                    0.000
                                    0.001 shape_base.py:179(vstack)
 64
             0.003
                    0.001
                            0.003
                                    0.001 {numpy.core.multiarray.concatenate}
        1518 0.003 0.000 0.003
 65
                                     0.000 {numpy.core.multiarray.where}
 66
         12
             0.002
                    0.000
                            0.002
                                     0.000 {cvxopt.blas.trsm}
             0.002
 67
        426
                     0.000
                             0.002
                                     0.000 {method 'remove' of 'list' objects}
                     0.000
 68
        181
              0.000
                             0.002
                                     0.000 numeric.py:136(ones)
 69
             0.001
                     0.000
                             0.001
                                     0.000 misc.py:422(update_scaling)
         11
 70
        570
             0.001
                     0.000
                             0.001
                                     0.000 {numpy.core.multiarray.empty}
 71
         12
                     0.000
                             0.001
                                     0.000 coneprog.py:1847(fP)
             0.000
 72
         12
             0.001
                     0.000
                             0.001
                                     0.000 {cvxopt.base.symv}
             0.001
 73
         2
                    0.000
                            0.001
                                    0.001 twodim_base.py:221(diag)
 74
        913
             0.001
                     0.000
                             0.001
                                     0.000 {range}
 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 2.643 seconds
 83
 84
      Ordered by: cumulative time, internal time, call count
 85
      List reduced from 117 to 40 due to restriction <40>
 86
 87
      ncalls tottime percall cumtime percall filename:lineno(function)
 88
                    0.000
                            2.643
                                    2.643 evaluation_2.py:141(cvxopt_ocsvm)
             0.000
 89
         1
             0.006
                    0.006
                            2.643
                                    2.643 ocsvm.py:35(fit)
                            2.635
 90
         1
             0.090
                    0.090
                                    2.635 ocsvm.py:62(alpha)
 91
                    0.003
                            2.497
         1
             0.003
                                    2.497 coneprog.py:4159(qp)
 92
                            2.494
             0.004
                    0.004
                                    2.494 coneprog.py:1441(coneqp)
         1
 93
                             2.350
                                    0.181 coneprog.py:1984(kktsolver)
         13
             0.000
                     0.000
 94
         13
             0.045
                     0.003
                             2.350
                                     0.181 misc.py:1389(factor)
 95
         13
             1.232
                     0.095
                             1.232
                                     0.095 {cvxopt.base.syrk}
 96
             0.808
                             0.808
         13
                     0.062
                                     0.062 {cvxopt.base.gemm}
 97
             0.248
         26
                     0.010
                             0.248
                                     0.010 {cvxopt.lapack.potrf}
 98
         152
             0.101
                     0.001
                             0.101
                                     0.001 {cvxopt.base.gemv}
 99
         25
             0.001
                     0.000
                             0.092
                                     0.004 misc.py:1489(solve)
         24
100
             0.000
                     0.000
                             0.090
                                     0.004 coneprog.py:2333(f4)
         24
101
             0.000
                     0.000
                             0.090
                                     0.004 coneprog.py:2291(f4_no_ir)
         26
102
             0.000
                     0.000
                             0.033
                                     0.001 coneprog.py:1900(fG)
                             0.033
103
         26
                                     0.001 misc.py:801(sgemv)
             0.001
                     0.000
104
             0.000
                     0.000
                            0.033
                                    0.016 ocsvm.py:58(gram)
         2
105
             0.000
                    0.000
                            0.033
                                    0.016 pairwise.py:1164(pairwise_kernels)
         2
106
             0.000
                    0.000
                            0.033
                                    0.016 pairwise.py:949(_parallel_pairwise)
         2
107
             0.012
                    0.006
                            0.033
                                    0.016 pairwise.py:740(rbf_kernel)
         50
                             0.023
108
             0.023
                     0.000
                                    0.000 {cvxopt.blas.trsv}
109
         2
             0.008
                    0.004
                            0.020
                                    0.010 pairwise.py:136(euclidean_distances)
110
         13
             0.016
                    0.001
                             0.016
                                    0.001 {cvxopt.blas.trsm}
         2
             0.000
                    0.000
                            0.012
111
                                    0.006 extmath.py:171(safe_sparse_dot)
         2
112
             0.012
                    0.006
                            0.012
                                    0.006 {numpy.core._dotblas.dot}
             0.000
                    0.000
                            0.011
113
                                    0.006 shape_base.py:179(vstack)
         2
114
             0.011
                     0.005
                            0.011
                                    0.005 {numpy.core.multiarray.concatenate}
         13
115
             0.000
                             0.006
                     0.000
                                    0.000 coneprog.py:1847(fP)
                             0.006
116
         13
             0.006
                     0.000
                                     0.000 {cvxopt.base.symv}
117
         2
             0.003
                    0.002
                            0.005
                                    0.002 twodim_base.py:221(diag)
```

File - unknown

```
0.003
                     0.000
                             0.003
                                     0.000 misc.py:422(update scaling)
118
          12
119
          1
             0.000
                     0.000
                             0.001
                                     0.001 ocsvm.py:45(rho)
120
          4
             0.001
                     0.000
                             0.001
                                     0.000 {numpy.core.multiarray.zeros}
         90
                              0.001
121
              0.001
                      0.000
                                      0.000 {range}
122
         72
                              0.001
                                      0.000 {cvxopt.misc_solvers.scale2}
              0.001
                      0.000
123
         221
              0.001
                      0.000
                              0.001
                                      0.000 {cvxopt.blas.axpy}
124
             0.000 0.000
                             0.000
          4
                                     0.000 pairwise.py:57(check_pairwise_arrays)
             0.000
125
         28
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.array}
                             0.000
126
             0.000
                     0.000
                                     0.000 validation.py:268(check_array)
          6
127
          19
              0.000
                      0.000
                             0.000
                                      0.000 numeric.py:462(asanyarray)
128
129
130
     *** PROFILER RESULTS ***
131
132
     sklearn_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:137)
133
     function called 1 times
134
135
          57 function calls in 0.015 seconds
136
137
       Ordered by: cumulative time, internal time, call count
138
139
       ncalls tottime percall cumtime percall filename:lineno(function)
140
                     0.000
             0.000
                             0.015
                                     0.015 evaluation_2.py:137(sklearn_ocsvm)
          1
141
          1
             0.000
                     0.000
                             0.015
                                     0.015 classes.py:941(fit)
142
          1
             0.000
                     0.000
                             0.015
                                     0.015 base.py:99(fit)
143
          1
             0.000
                     0.000
                             0.015
                                     0.015 base.py:211(_dense_fit)
144
                             0.015
          1
             0.015
                     0.015
                                     0.015 {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
             0.000
                     0.000
                             0.000
          1
                                     0.000 validation.py:126(_shape_repr)
151
          1
             0.000
                             0.000
                                     0.000 {method 'randint' of 'mtrand.RandomState'
                     0.000
     objects}
152
          1
             0.000
                     0.000
                             0.000
                                     0.000 base.py:193(_validate_targets)
153
          1
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:136(ones)
          1
                             0.000
154
             0.000
                     0.000
                                     0.000 shape_base.py:60(atleast_2d)
          5
155
             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}
          2
157
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.empty}
             0.000
          1
158
             0.000
                             0.000
                                     0.000 getlimits.py:244(__init__)
                     0.000
159
          2
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:392(asarray)
          1
160
             0.000
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.copyto}
          3
             0.000
                             0.000
161
                     0.000
                                     0.000 validation.py:153(<genexpr>)
162
          1
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:105(_num_samples)
163
          1
             0.000
                     0.000
                             0.000
                                     0.000 {method 'copy' of 'numpy.ndarray' objects}
                                     0.000 {sklearn.svm.libsvm.set_verbosity_wrap}
164
          1
             0.000
                     0.000
                             0.000
          2
165
             0.000
                     0.000
                             0.000
                                     0.000 base.py:702(isspmatrix)
          2
166
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:462(asanyarray)
          6
             0.000
                             0.000
                                     0.000 \{len\}
167
                     0.000
          3
             0.000
                     0.000
                             0.000
                                     0.000 {hasattr}
168
          1
169
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:503(check_random_state)
          3
                                     0.000 {isinstance}
170
             0.000
                     0.000
                             0.000
          1
             0.000
171
                     0.000
                             0.000
                                     0.000 base.py:203(_warn_from_fit_status)
172
          1
             0.000
                     0.000
                             0.000
                                     0.000 getlimits.py:269(max)
173
          2
                             0.000
                                     0.000 {callable}
             0.000
                     0.000
174
          1
                             0.000
                                     0.000 {method 'append' of 'list' objects}
             0.000
                     0.000
175
          1
             0.000
                     0.000
                             0.000
                                     0.000 {method 'disable' of '_lsprof.Profiler' objects}
```

File - unknown				
176	1	0.000	0.000 0.000	0.000 {method 'index' of 'list' objects}
177	0	0.000	0.000 0.000 0.000	0.000 {method 'index' of 'list' objects} profile:0(profiler)
178				1 1 /
179				
178 179 180				
181	Process	finished	l with exit code 0	
181 182	1100055	Timismoc	With Can code o	
102				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				