```
/usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation 2.py
    segment0: nu=0.9, gamma=10
   data size: 2308
 4 break_count: 2288
   train_size: 1749.0
    Confusion matrix:
   [[ 52 277]
    [ 179 1800]]
   precision: 0.86663456909, recall: 0.909550277918, f1-score: 0.887573964497
10
11
   Confusion matrix:
12
    Prediction -1
13
   Target
14
            52 277
   -1
15
    1
            175 1804
   precision: 0.866890917828, recall: 0.911571500758, f1-score: 0.888669950739
16
17
18 Confusion matrix:
19
    Prediction -1
20
   Target
21
22
   -1
            51 278
    1
            177 1802
23
    precision: 0.866346153846, recall: 0.910560889338, f1-score: 0.887903424489
24
25
    *** PROFILER RESULTS ***
26
    incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
27
    function called 1 times
28
29
         12982 function calls in 13.968 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 13.968 13.968 evaluation_2.py:145(incremental_ocsvm)
36
        1
            0.023
                   0.023 11.740 11.740 ocsvm.py:35(fit)
                   0.255 11.717 11.717 ocsvm.py:62(alpha)
37
            0.255
        1
38
                   0.014 11.339 11.339 coneprog.py:4159(qp)
        1
            0.014
39
            0.011
                   0.011 11.325
                                   11.325 coneprog.py:1441(coneqp)
        1
40
        17
            0.000
                   0.000 10.845
                                   0.638 coneprog.py:1984(kktsolver)
                                    0.638 misc.py:1389(factor)
41
        17
            0.129
                    0.008 10.845
42
        17
            5.832
                    0.343
                            5.832
                                   0.343 {cvxopt.base.syrk}
43
        17
            3.286
                           3.286
                                   0.193 {cvxopt.base.gemm}
                    0.193
44
                           2.227
                                   2.227 ocsvm.py:98(increment)
        1
            1.846
                    1.846
45
                           1.539
        34
            1.539
                    0.045
                                   0.045 {cvxopt.lapack.potrf}
46
       200
            0.353
                    0.002
                            0.353
                                    0.002 {cvxopt.base.gemv}
47
        33
            0.002
                    0.000
                            0.310
                                   0.009 misc.py:1489(solve)
48
        32
            0.000
                    0.000
                           0.304
                                   0.010 coneprog.py:2333(f4)
49
        32
                    0.000 0.304
            0.001
                                   0.010 coneprog.py:2291(f4_no_ir)
50
        2
2
2
2
2
            0.000
                   0.000 0.251
                                   0.125 ocsvm.py:58(gram)
51
            0.000
                   0.000
                          0.251
                                   0.125 pairwise.py:1164(pairwise_kernels)
52
            0.000
                   0.000
                          0.251
                                   0.125 pairwise.py:949(_parallel_pairwise)
53
            0.089
                   0.044
                           0.251
                                   0.125 pairwise.py:740(rbf_kernel)
54
            0.072
                   0.036 0.161
                                   0.081 pairwise.py:136(euclidean_distances)
55
       1153 0.142 0.000 0.142
                                    0.000 \{ \min \}
56
                           0.120
        34
            0.000
                   0.000
                                   0.004 coneprog.py:1900(fG)
                                   0.004 misc.py:801(sgemv)
57
        34
            0.001
                    0.000
                           0.120
58
        2
            0.000
                   0.000
                           0.089
                                   0.045 extmath.py:171(safe_sparse_dot)
```

File - unknown

```
0.045 {numpy.core._dotblas.dot}
             0.089
                    0.045
                            0.089
 59
 60
         66
             0.074
                     0.001
                             0.074
                                    0.001 {cvxopt.blas.trsv}
         17
             0.057
                     0.003
                             0.057
                                    0.003 {cvxopt.blas.trsm}
 61
                     0.000
                            0.047
             0.047
 62
        926
                                     0.000 {method 'dot' of 'numpy.ndarray' objects}
                            0.029
             0.000
                                    0.014 shape_base.py:179(vstack)
 63
                    0.000
         2
 64
             0.028
                    0.014
                            0.028
                                    0.014 {numpy.core.multiarray.concatenate}
 65
         17
             0.000
                    0.000
                            0.019
                                    0.001 coneprog.py:1847(fP)
 66
         17
             0.019
                    0.001
                            0.019
                                    0.001 {cvxopt.base.symv}
                            0.008
 67
         2
             0.003
                    0.002
                                    0.004 twodim_base.py:221(diag)
        1104 0.007
                     0.000 0.007
 68
                                     0.000 {numpy.core.multiarray.where}
                                    0.000 misc.py:422(update_scaling)
 69
             0.005
                     0.000
                            0.007
         16
 70
        292
              0.006
                     0.000
                             0.006
                                     0.000 {method 'remove' of 'list' objects}
 71
        165
             0.006
                             0.006
                                     0.000 {numpy.core.multiarray.zeros}
                     0.000
 72
         90
             0.003
                     0.000
                             0.005
                                    0.000 numeric.py:966(outer)
 73
        129
             0.001
                     0.000
                            0.004
                                     0.000 numeric.py:136(ones)
 74
             0.004
                    0.004
                           0.004
                                    0.004 misc.py:20(<module>)
 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
          3538 function calls in 102.878 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 0.000 102.878 102.878 evaluation_2.py:141(cvxopt_ocsvm)
 89
         1
             0.051
                    0.051 102.878 102.878 ocsvm.py:35(fit)
                     2.277 102.823 102.823 ocsvm.py:62(alpha)
 90
         1
             2.277
 91
                    0.027 99.475 99.475 coneprog.py:4159(qp)
             0.027
         1
 92
                    0.016 99.447 99.447 coneprog.py:1441(coneqp)
             0.016
         1
 93
                                    5.111 coneprog.py:1984(kktsolver)
                     0.000 97.102
         19
             0.000
 94
                     0.047 97.102
         19
             0.893
                                     5.111 misc.py:1389(factor)
 95
         19
            61.022
                     3.212 61.022
                                     3.212 {cvxopt.base.syrk}
 96
         19
            22.838
                     1.202
                            22.838
                                     1.202 {cvxopt.base.gemm}
 97
         38 12.080
                     0.318
                            12.080
                                     0.318 {cvxopt.lapack.potrf}
             1.822
 98
        224
                     0.008
                             1.822
                                     0.008 {cvxopt.base.gemv}
 99
         37
             0.002
                     0.000
                             1.560
                                    0.042 misc.py:1489(solve)
100
         36
             0.000
                     0.000
                             1.519
                                    0.042 coneprog.py:2333(f4)
101
         36
             0.001
                     0.000
                            1.518
                                    0.042 coneprog.py:2291(f4_no_ir)
         2
102
             0.000
                    0.000
                            0.726
                                    0.363 ocsvm.py:58(gram)
         2
103
             0.000
                            0.726
                    0.000
                                    0.363 pairwise.py:1164(pairwise_kernels)
             0.000
104
                    0.000
                            0.726
                                    0.363 pairwise.py:949(_parallel_pairwise)
         2
105
             0.272
                    0.136
                            0.726
                                    0.363 pairwise.py:740(rbf_kernel)
                            0.626
106
         38
             0.000
                     0.000
                                    0.016 coneprog.py:1900(fG)
107
         38
             0.001
                     0.000
                            0.626
                                    0.016 misc.py:801(sgemv)
         2
108
             0.108
                    0.054
                            0.453
                                    0.226 pairwise.py:136(euclidean_distances)
109
         74
             0.361
                    0.005
                            0.361
                                    0.005 {cvxopt.blas.trsv}
110
         2
             0.000
                    0.000
                            0.344
                                    0.172 extmath.py:171(safe_sparse_dot)
             0.344
                    0.172
                            0.344
111
                                    0.172 {numpy.core._dotblas.dot}
         19
112
             0.263
                     0.014
                            0.263
                                    0.014 {cvxopt.blas.trsm}
             0.000
                    0.000
                            0.244
113
         2
                                    0.122 shape_base.py:179(vstack)
         2
                            0.244
114
             0.244
                    0.122
                                    0.122 {numpy.core.multiarray.concatenate}
         19
115
             0.000
                            0.108
                     0.000
                                    0.006 coneprog.py:1847(fP)
         19
                            0.107
116
             0.107
                     0.006
                                    0.006 {cvxopt.base.symv}
117
         2
             0.031
                    0.015
                            0.104
                                    0.052 twodim_base.py:221(diag)
```

File - unknown

```
0.073
                     0.018
                             0.073
                                     0.018 {numpy.core.multiarray.zeros}
118
119
         18
              0.013
                      0.001
                             0.016
                                     0.001 misc.py:422(update scaling)
120
         132
              0.006
                      0.000
                              0.006
                                     0.000 {range}
             0.000 0.000 0.004
121
          1
                                    0.004 ocsvm.py:45(rho)
122
         108
              0.003
                      0.000
                             0.003
                                      0.000 {cvxopt.misc_solvers.scale2}
123
         329
              0.003
                      0.000
                             0.003
                                     0.000 {cvxopt.blas.axpy}
             0.002
                             0.002
124
         38
                     0.000
                                     0.000 {cvxopt.base.sqrt}
125
         1
             0.001
                     0.001
                             0.002
                                    0.002 misc.py:250(compute_scaling)
126
          4
             0.000
                     0.000
                             0.002
                                     0.000 pairwise.py:57(check_pairwise_arrays)
127
         147
              0.002
                      0.000 0.002 0.000 {cvxopt.blas.copy}
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 0.180 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
                             0.180
                                     0.180 evaluation_2.py:137(sklearn_ocsvm)
          1
141
          1
             0.000
                     0.000
                                     0.180 classes.py:941(fit)
                             0.180
142
          1
             0.000
                     0.000
                             0.180
                                     0.180 base.py:99(fit)
143
                             0.179
          1
             0.000
                     0.000
                                     0.179 base.py:211(_dense_fit)
144
                             0.178
          1
             0.178
                     0.178
                                     0.178 {sklearn.svm.libsvm.fit}
145
          1
             0.001
                     0.001
                             0.001
                                     0.001 {sklearn.svm.libsvm.set_verbosity_wrap}
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
             0.000
                     0.000
                             0.000
          1
                                     0.000 {method 'reduce' of 'numpy.ufunc' objects}
151
          1
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:503(check_random_state)
152
          1
             0.000
                             0.000
                                     0.000 numeric.py:136(ones)
                     0.000
                             0.000
153
          1
             0.000
                     0.000
                                     0.000 base.py:193(_validate_targets)
154
          1
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:126(_shape_repr)
          1
                             0.000
155
             0.000
                     0.000
                                     0.000 getlimits.py:269(max)
156
          1
             0.000
                     0.000
                             0.000
                                     0.000 getlimits.py:244(__init__)
          1
             0.000
                     0.000
                             0.000
157
                                     0.000 {method 'randint' of 'mtrand.RandomState'
     objects }
158
             0.000
                     0.000
                             0.000
          1
                                     0.000 shape base.py:60(atleast 2d)
159
          1
             0.000
                     0.000
                             0.000
                                     0.000 {method 'join' of 'str' objects}
          5
160
             0.000
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.array}
          2
161
                     0.000
                             0.000
             0.000
                                     0.000 {numpy.core.multiarray.empty}
          1
162
             0.000
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.copyto}
163
          3
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:153(<genexpr>)
164
          1
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:105(_num_samples)
          2
165
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:392(asarray)
          1
166
             0.000
                     0.000
                             0.000
                                     0.000 {method 'copy' of 'numpy.ndarray' objects}
          2
             0.000
                     0.000
                             0.000
167
                                     0.000 numeric.py:462(asanyarray)
          3
             0.000
                     0.000
                             0.000
168
                                     0.000 {hasattr}
          2
169
             0.000
                     0.000
                             0.000
                                     0.000 base.py:702(isspmatrix)
          6
170
             0.000
                     0.000
                             0.000
                                     0.000 \{len\}
             0.000
                     0.000
          3
                             0.000
171
                                     0.000 {isinstance}
          1
172
             0.000
                     0.000
                             0.000
                                     0.000 base.py:203(_warn_from_fit_status)
173
          1
                                     0.000 {method 'index' of 'list' objects}
             0.000
                     0.000
                             0.000
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}
```

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