```
/usr/bin/python /Users/LT/Documents/Uni/MA/increOCSVM/evaluation 2.py
    yeast1: nu=0.9, gamma=10
   data size: 1484
 4 break_count: 1464
    train_size: 1125.0
    Confusion matrix:
    [[ 47 382]
    [ 96 959]]
    precision: 0.715137956749, recall: 0.909004739336, f1-score: 0.800500834725
10
11
    Confusion matrix:
12
    Prediction -1 1
13
    Target
            46 383
14
   -1
15
    1
            95 960
   precision: 0.714817572599, recall: 0.909952606635, f1-score: 0.800667222686
16
17
18 Confusion matrix:
19
    Prediction -1
20
    Target
21
22
            47 382
    -1
    1
            96 959
23
    precision: 0.715137956749, recall: 0.909004739336, f1-score: 0.800500834725
24
25
    *** PROFILER RESULTS ***
26
    incremental_ocsvm (/Users/LT/Documents/Uni/MA/increOCSVM/evaluation_2.py:145
27
    function called 1 times
28
29
         10008 function calls in 3.793 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
                           3.793
                                   3.793 evaluation_2.py:145(incremental_ocsvm)
36
         1
            0.005
                    0.005
                           3.277
                                   3.277 ocsvm.py:35(fit)
                   0.093
37
            0.093
                           3.272
         1
                                   3.272 ocsvm.py:62(alpha)
38
                           3.119
         1
            0.003
                    0.003
                                   3.119 coneprog.py:4159(qp)
                    0.007
                                   3.116 coneprog.py:1441(coneqp)
39
            0.007
         1
                           3.116
40
                                    0.183 coneprog.py:1984(kktsolver)
        16
            0.000
                    0.000
                           2.926
                                    0.183 misc.py:1389(factor)
41
        16
            0.057
                    0.004
                            2.926
42
        16
            1.511
                    0.094
                            1.511
                                    0.094 {cvxopt.base.syrk}
43
        16
            1.030
                    0.064
                            1.030
                                    0.064 {cvxopt.base.gemm}
44
            0.429
                    0.429
        1
                           0.515
                                   0.515 ocsvm.py:98(increment)
45
        32
            0.306
                    0.010
                            0.306
                                    0.010 {cvxopt.lapack.potrf}
46
        188
             0.131
                    0.001
                            0.131
                                    0.001 {cvxopt.base.gemv}
47
        31
             0.002
                    0.000
                            0.120
                                    0.004 misc.py:1489(solve)
48
        30
            0.000
                    0.000
                            0.119
                                    0.004 coneprog.py:2333(f4)
49
        30
            0.000
                    0.000 0.118
                                    0.004 coneprog.py:2291(f4_no_ir)
50
         2
2
2
2
2
            0.000
                    0.000 0.076
                                   0.038 ocsvm.py:58(gram)
51
            0.000
                    0.000
                           0.076
                                   0.038 pairwise.py:1164(pairwise_kernels)
52
            0.000
                    0.000
                           0.076
                                   0.038 pairwise.py:949(_parallel_pairwise)
53
            0.030
                    0.015
                           0.076
                                   0.038 pairwise.py:740(rbf_kernel)
54
            0.018
                    0.009
                           0.046
                                   0.023 pairwise.py:136(euclidean_distances)
55
        32
                                    0.001 coneprog.py:1900(fG)
            0.000
                    0.000
                           0.042
56
        32
                            0.042
                                    0.001 misc.py:801(sgemv)
             0.001
                    0.000
                    0.000
57
       908
                            0.032
                                    0.000 \{ \min \}
             0.032
58
        62
             0.028
                    0.000
                            0.028
                                    0.000 {cvxopt.blas.trsv}
```

File - unknown

```
0.000
                    0.000
                            0.028
 59
                                    0.014 extmath.py:171(safe sparse dot)
 60
             0.028
                    0.014
                            0.028
                                    0.014 {numpy.core. dotblas.dot}
 61
         16
             0.022
                     0.001
                             0.022
                                    0.001 {cvxopt.blas.trsm}
                            0.013
 62
         2
             0.000
                    0.000
                                    0.007 shape_base.py:179(vstack)
         2
                    0.007
                            0.013
 63
             0.013
                                    0.007 {numpy.core.multiarray.concatenate}
             0.012
 64
        597
                     0.000
                            0.012
                                     0.000 {method 'dot' of 'numpy.ndarray' objects}
             0.000
 65
                    0.000
                            0.008
         16
                                    0.000 coneprog.py:1847(fP)
 66
             0.008
                     0.000
                            0.008
                                    0.000 {cvxopt.base.symv}
         16
                            0.004
 67
         15
             0.003
                     0.000
                                    0.000 misc.py:422(update_scaling)
                            0.004
 68
         2
             0.002
                    0.001
                                    0.002 twodim_base.py:221(diag)
 69
        259
             0.003
                     0.000
                             0.003
                                     0.000 {method 'remove' of 'list' objects}
 70
        862
             0.002
                      0.000
                             0.002
                                     0.000 {numpy.core.multiarray.where}
         93
 71
             0.002
                             0.002
                                     0.000 {numpy.core.multiarray.zeros}
                     0.000
 72
        560
             0.001
                     0.000
                             0.001
                                     0.000 {range}
 73
         90
             0.001
                     0.000
                             0.001
                                     0.000 {cvxopt.misc_solvers.scale2}
 74
              0.000
         108
                     0.000
                             0.001
                                     0.000 numeric.py:136(ones)
 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 29.406 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 29.406 29.406 evaluation_2.py:141(cvxopt_ocsvm)
             0.000
 89
                    0.023 29.406 29.406 ocsvm.py:35(fit)
         1
             0.023
                                    29.381 ocsvm.py:62(alpha)
 90
         1
             0.408
                    0.408 29.381
 91
                    0.013 28.734 28.734 coneprog.py:4159(qp)
             0.013
         1
 92
                    0.010 28.721
             0.010
                                    28.721 coneprog.py:1441(coneqp)
         1
 93
                     0.000 27.796
         19
             0.000
                                     1.463 coneprog.py:1984(kktsolver)
 94
             0.267
                     0.014 27.796
         19
                                     1.463 misc.py:1389(factor)
 95
         19
             17.102
                     0.900 17.102
                                     0.900 {cvxopt.base.syrk}
 96
         19
             7.231
                            7.231
                     0.381
                                    0.381 {cvxopt.base.gemm}
             3.098
 97
                             3.098
         38
                     0.082
                                    0.082 {cvxopt.lapack.potrf}
 98
        224
             0.709
                     0.003
                             0.709
                                     0.003 {cvxopt.base.gemv}
 99
         37
             0.002
                     0.000
                             0.612
                                    0.017 misc.py:1489(solve)
100
         36
             0.000
                     0.000
                             0.601
                                     0.017 coneprog.py:2333(f4)
101
         36
             0.001
                     0.000
                             0.600
                                    0.017 coneprog.py:2291(f4_no_ir)
102
         38
             0.000
                     0.000
                             0.244
                                    0.006 coneprog.py:1900(fG)
                            0.244
                     0.000
103
         38
                                    0.006 misc.py:801(sgemv)
             0.001
         2
104
             0.000
                    0.000
                            0.154
                                    0.077 ocsvm.py:58(gram)
         2
105
             0.000
                    0.000
                            0.154
                                    0.077 pairwise.py:1164(pairwise_kernels)
         2
106
             0.000
                    0.000
                            0.154
                                    0.077 pairwise.py:949(_parallel_pairwise)
         2
107
             0.055
                    0.028
                            0.154
                                    0.077 pairwise.py:740(rbf_kernel)
         74
                            0.144
                                    0.002 {cvxopt.blas.trsv}
108
             0.144
                    0.002
             0.036
109
         2
                            0.098
                    0.018
                                    0.049 pairwise.py:136(euclidean_distances)
110
         19
             0.095
                    0.005
                            0.095
                                    0.005 {cvxopt.blas.trsm}
         2
             0.000
                    0.000
                            0.072
111
                                    0.036 shape_base.py:179(vstack)
         2
112
             0.071
                    0.036
                            0.071
                                    0.036 {numpy.core.multiarray.concatenate}
             0.000
                    0.000
                            0.062
113
                                    0.031 extmath.py:171(safe_sparse_dot)
         2
114
             0.062
                    0.031
                            0.062
                                    0.031 {numpy.core._dotblas.dot}
         19
115
                             0.037
             0.000
                     0.000
                                    0.002 coneprog.py:1847(fP)
         19
                             0.037
116
             0.037
                     0.002
                                    0.002 {cvxopt.base.symv}
117
         2
             0.007
                    0.004
                            0.014
                                    0.007 twodim_base.py:221(diag)
```

File - unknown

```
0.008
                     0.000
                             0.010
                                     0.001 misc.py:422(update scaling)
118
          18
119
          4
             0.007
                     0.002
                             0.007
                                     0.002 {numpy.core.multiarray.zeros}
120
         132
              0.002
                      0.000
                              0.002
                                      0.000 \{range\}
                      0.000
121
         108
              0.002
                              0.002
                                      0.000 {cvxopt.misc_solvers.scale2}
                              0.002
              0.002
122
         329
                      0.000
                                      0.000 {cvxopt.blas.axpy}
123
          1
            0.000 \quad 0.000
                            0.001
                                    0.001 ocsvm.py:45(rho)
124
         38
              0.001
                     0.000
                             0.001
                                     0.000 {cvxopt.base.sqrt}
125
         147
              0.001
                      0.000
                              0.001
                                      0.000 {cvxopt.blas.copy}
126
         36
              0.001
                      0.000
                              0.001
                                      0.000 {cvxopt.misc_solvers.sinv}
127
         109
              0.001
                      0.000
                              0.001
                                      0.000 {cvxopt.misc_solvers.scale}
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 0.053 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
                             0.053
                                     0.053 evaluation_2.py:137(sklearn_ocsvm)
          1
141
          1
             0.000
                     0.000
                             0.053
                                     0.053 classes.py:941(fit)
142
          1
             0.000
                     0.000
                             0.053
                                     0.053 base.py:99(fit)
143
          1
             0.000
                     0.000
                             0.053
                                     0.053 base.py:211(_dense_fit)
144
                             0.053
          1
             0.053
                     0.053
                                     0.053 {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}
157
          1
                     0.000
                             0.000
             0.000
                                     0.000 getlimits.py:244(__init__)
          2
                                     0.000 {numpy.core.multiarray.empty}
158
             0.000
                             0.000
                     0.000
159
          1
             0.000
                     0.000
                             0.000
                                     0.000 {method 'copy' of 'numpy.ndarray' objects}
          1
160
             0.000
                     0.000
                             0.000
                                     0.000 {numpy.core.multiarray.copyto}
          1
                     0.000
                             0.000
161
             0.000
                                     0.000 validation.py:105(_num_samples)
          2
162
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:392(asarray)
163
          3
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:153(<genexpr>)
164
          1
             0.000
                     0.000
                             0.000
                                     0.000 {sklearn.svm.libsvm.set_verbosity_wrap}
165
          1
             0.000
                     0.000
                             0.000
                                     0.000 validation.py:503(check_random_state)
          2
166
             0.000
                     0.000
                             0.000
                                     0.000 numeric.py:462(asanyarray)
          3
             0.000
                             0.000
167
                     0.000
                                     0.000 {hasattr}
          1
             0.000
                     0.000
                             0.000
                                     0.000 base.py:203(_warn_from_fit_status)
168
          1
169
             0.000
                     0.000
                             0.000
                                     0.000 getlimits.py:269(max)
          2
170
             0.000
                     0.000
                             0.000
                                     0.000 base.py:702(isspmatrix)
                     0.000
          6
             0.000
                             0.000
                                     0.000 \{len\}
171
          3
                                     0.000 {isinstance}
172
             0.000
                     0.000
                             0.000
173
          1
                                     0.000 {method 'disable' of '_lsprof.Profiler' objects}
             0.000
                     0.000
                             0.000
174
                                     0.000 {method 'index' of 'list' objects}
                             0.000
          1
             0.000
                     0.000
175
          2
             0.000
                     0.000
                             0.000
                                     0.000 {callable}
```

File - unknown

File - unknown					
176	1	0.000	0.000 0.000 0.000	0.000 {method 'append' of 'list' objects} profile:0(profiler)	
177	0	0.000	0.000	profile:0(profiler)	
178					
178 179 180					
181	Process	finished	l with exit code (		
181 182	riocess	THIISHEC	i willi exil code (	)	
102					
1					
1					