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 0.0036917
-0.0031298
 0.0108985
 0.0178455
 0.0205660
 0.0142078
 0.0278949
-0.0106698
-0.0157003
-0.0035856
-0.0123127
 0.0065772
-0.0080848
 0.0011176
-0.0068134
-0.0022995
```

```
0.0080749
-0.0038310
-0.0034270
-0.0036913
0.0001634
0.0058719
0.0089443
-0.0040861
0.0145770
0.0213131
0.0072807
-0.0014968
0.0035572
-0.0040886
0.0134205
0.0157780
0.0115342
0.0231275
0.0184970
-0.0020340
-0.0049350
-0.0115708
-0.0155655
0.0061222
0.0286483
0.0187214
0.0195019
-0.0035191
-0.0143622
-0.0359973
-0.0240112
-0.0195661
-0.0075696
-0.0084009
-0.0193354
0.0014854
-0.0001279
-0.0172463
-0.0156711
-0.0152544
-0.0137730
0.0103301
0.0203219
0.0024431
0.0153404
0.0030730
0.0007666
0.0064687
-0.0081971
-0.0002471
0.0015257
```

```
0.0284719
0.0140088
0.0100812
-0.0006438
0.0103771
0.0035990
0.0078074
0.0145506
0.0178779
0.0176620
0.0212551
0.0017933
-0.0022400
-0.0087050
-0.0151818
-0.0155868
-0.0175632
0.0106979
0.0113425
0.0055745
0.0043557
-0.0039403
-0.0064701
0.0069514
0.0053880
-0.0060987
0.0126133
-0.0029186
-0.0035137
-0.0034341
-0.0097380
0.0032918
0.0180099
0.0138620
0.0108348
0.0093674
0.0040101
0.0054717
-0.0114313
-0.0125842
0.0013150
0.0156527
-0.0001318
0.0175131
0.0130057
0.0180810
0.0165672
-0.0173321
0.0063906
-0.0017038
0.0013348
```

```
0.0067874
-0.0110721
0.0040785
-0.0068744
-0.0049241
0.0058462
0.0114948
0.0080613
0.0114638
-0.0009012
-0.0123662
-0.0025013
0.0000628
0.0009086
0.0111927
0.0024410
0.0035572
0.0163581
-0.0046123
0.0174062
0.0125307
0.0343602
0.0199391
0.0046404
0.0038641
-0.0041770
0.0119888
-0.0045340
-0.0155567
-0.0039107
0.0151232
0.0020898
0.0068620
0.0065542
0.0169206
0.0372176
0.0020502
-0.0028796
0.0031990
0.0195328
0.0073058
0.0059059
-0.0109957
-0.0051546
0.0181961
-0.0120458
-0.0156735
-0.0086255
-0.0009218
-0.0013565
-0.0097503
```

```
0.0082487
-0.0018474
0.0096579
-0.0004853
-0.0050065
-0.0012172
0.0135736
0.0018809
0.0107774
-0.0005951
-0.0091542
-0.0001183
-0.0075134
-0.0064371
-0.0062428
-0.0075493
-0.0092599
0.0003008
0.0102539
-0.0052029
0.0027879
-0.0094802
-0.0098328
0.0003873
0.0155633
0.0051779
0.0110156
0.0174663
-0.0046749
0.0081219
-0.0117696
-0.0118254
-0.0057158
0.0064135
-0.0041111
0.0171225
-0.0071437
-0.0085321
0.0024923
-0.0146684
-0.0093535
-0.0139211
-0.0147217
-0.0130981
-0.0072680
0.0080226
0.0139663
0.0320303
0.0079830
0.0235399
0.0032715
```

```
0.0107225
0.0077342
0.0086326
0.0046382
-0.0051176
0.0146469
-0.0140508
-0.0170089
-0.0112713
0.0065286
0.0041732
0.0053261
0.0106749
0.0171709
0.0459004
0.0117850
0.0105356
0.0083252
0.0212568
0.0077874
0.0109019
0.0025218
0.0116732
0.0205557
0.0107373
0.0155647
0.0047753
0.0230614
0.0079366
0.0040331
-0.0068021
-0.0019709
-0.0020549
0.0063575
-0.0135250
0.0015260
0.0167519
0.0073511
-0.0065392
-0.0093374
0.0125915
0.0257526
0.0117517
0.0047541
0.0064636
0.0122396
0.0056220
-0.0085132
-0.0068622
-0.0026748
-0.0021629
```



```
0.0080158
0.0044305
0.0063999
0.0264935
0.0225979
-0.0068088
0.0268500
objective function at solution point:
fs =
    single
    0.4963737
number of iterations performed:
k =
    250
>> classify_ducks(ws,D_1000_train,D_1000_test)
ans =
    8101         1
ans =
    8101         1
percent_correct_pos_train =
    88
percent_correct_neg_train =
    88.2500
class =
    single
    1
class =
    single
    1
class =
    single
    1
class =
    single
    -1
class =
    single
    1
class =
    single
    -1
class =
    single
    1
class =
    single
    -1
class =
    single
    1
class =
    single
    -1
class =
    single
    1
class =
```

```
single
1
class =
single
1
class =
single
-1
class =
single
1
class =
single
1
class =
single
1
class =
single
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class =
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class =
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class =
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class =
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class =
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class =
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class =
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class =
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class =
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class =
single
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class =
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[illegible]

```
single
1
class =
single
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class =
single
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class =
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class =
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class =
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class =
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class =
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class =
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class =
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class =
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-1
class =
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class =
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class =
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1
class =
single
1
class =
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

    -1
class =
    single
    -1
class =
    single
    -1
class =
    single
    -1
class =
    single
    -1
percent_correct_neg_test =
    93
>> classify_ducks(ws,D_1000_train,D_1000_test)
ans =
    8101         1
ans =
    8101         1
percent_correct_pos_train =
    88
percent_correct_neg_train =
    88.2500
percent_correct_pos_test =
    79
percent_correct_neg_test =
    93
>> classify_ducks_newtest(ws);
D_newtest =
    struct with fields:

    arr: [730×8100 single]
Index in position 1 exceeds array bounds (must not exceed 1).
Error in classify_ducks_newtest (line 10)
D_test = [D_newtest(1:8100,:);ones(1,730)];
>> classify_ducks_newtest(ws);
D_newtest =
    struct with fields:

    arr: [730×8100 single]
Unrecognized field name "arr2".
Error in classify_ducks_newtest (line 10)
D_test = [D_newtest.arr2(1:8100,:);ones(1,730)];
>> classify_ducks_newtest(ws);
D_newtest =
    struct with fields:

    arr: [730×8100 single]
Index in position 1 exceeds array bounds (must not exceed 730).
Error in classify_ducks_newtest (line 10)

```

```
D_test = [D_newtest.arr(1:8100,:);ones(1,730)];
>> classify_ducks_newtest(ws);
D_newtest =
    struct with fields:

        arr: [730×8100 single]
percent_correct_pos_test =
    52.6316
percent_correct_neg_test =
    14.6273
>> classify_ducks(ws,D_1000_train,D_1000_test)
ans =
     8101         1
ans =
     8101         1
percent_correct_pos_train =
     88
percent_correct_neg_train =
    88.2500
percent_correct_pos_test =
     79
percent_correct_neg_test =
     93
>> classify_ducks_newtest(ws);
D_newtest =
    struct with fields:

        arr: [730×8100 single]
percent_correct_pos_test =
    52.6316
percent_correct_neg_test =
    14.6273
>>
```