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clc
close all
clear

Control Variables

Train = 1; % Put 0 if you want to use your own Matrix for testing

Variables For Training

```
URL = './yalefaces/';
samplesofEachPersonForTraining = 5; % total Samples to Train Your SVM
totalPerson = 5; % total Subjects to be trained in SVM
positiveSubjectNumber=3; % Select subject Number you want to identified in SVM as
```

Variables For Testing

```
samplesofEachPersonForTesting = 9; %
compressRate = 1; % between 0 and 1
TestSubjectNumber = 1:4; % for observing results for different Subjects
SVMTestDataMatrixName = 'PCA SVM-TotalSamples4-C0.01.mat'; % if Train is equal to
PCAMatrixName = 'lbp PCATrained totalperson 5 samplesPerPerson10.mat'; % if Train
```

Variables For Both Testing And Controlling

SVM

Training & Testing

```
if(Train == 1)
% Training and Test
   if(TrainingAndTestingMethod == 'SVM')
```

Testing Only

```
if(TrainingAndTestingMethod == 'SVM')
        TestPCA_SVMFunction(SVMTestDataMatrixName,samplesofEachPersonForTesting,2)
else
    for i= TestSubjectNumber
    PCATestFunctionLast(PCAMatrixName,samplesofEachPersonForTesting,i);
    end
end
end
```

			First-order	Total relative
Iter	f(x)	Feasibility	optimality	error
0	1.275000e+01	5.238e+07	6.829e+08	6.829e+08
1	5.618805e+03	5.895e+04	7.686e+05	7.798e+05
2	1.080346e+04	0.000e+00	5.292e+05	5.446e+05
3	1.295696e+04	0.000e+00	3.308e+05	3.473e+05
4	5.368039e+03	0.000e+00	6.351e+04	7.099e+04
5	2.540697e+03	0.000e+00	1.421e+04	1.772e+04
6	1.284483e+03	0.000e+00	6.088e+03	7.794e+03
7	3.157433e+02	0.000e+00	9.346e+02	1.383e+03
8	7.488987e+01	0.000e+00	1.231e+02	2.360e+02
9	7.194143e+00	0.000e+00	2.000e-04	1.392e+01
10	1.062280e+00	0.000e+00	7.848e-05	2.026e+00
11	1.518168e-01	0.000e+00	1.091e-05	2.900e-01
12	2.176277e-02	0.000e+00	1.569e-06	4.156e-02
13	3.118784e-03	0.000e+00	2.247e-07	5.957e-03
14	4.469638e-04	0.000e+00	3.221e-08	8.536e-04
15	6.405867e-05	0.000e+00	4.615e-09	1.223e-04

Minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the function tolerance and constraints are satisfied to within the default value of the constrain

Person did not match The Target



Person did not match The Target



Person did not match The Target



Person did not match The Target



Person did not match The Target



Person did not match The Target



Person did not match The Target

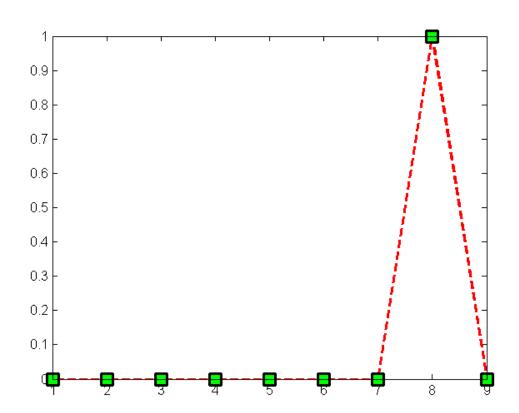


Person matched The Target

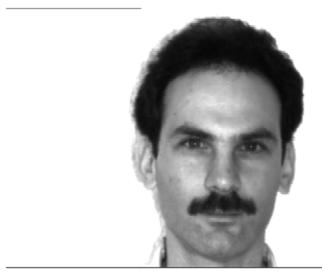


Person did not match The Target

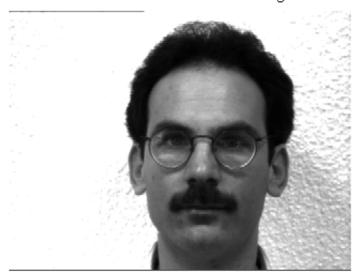




Person did not match The Target



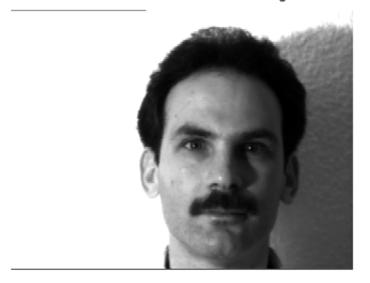
Person did not match The Target



Person did not match The Target



Person did not match The Target



Person did not match The Target



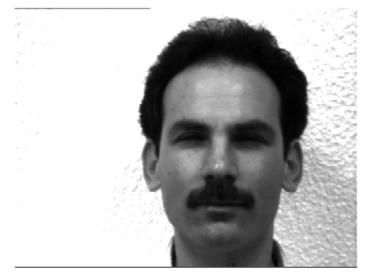
Person did not match The Target



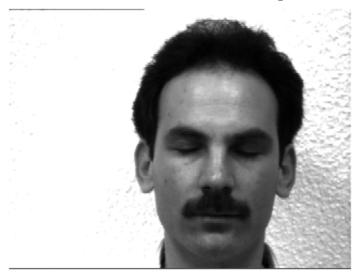
Person matched The Target

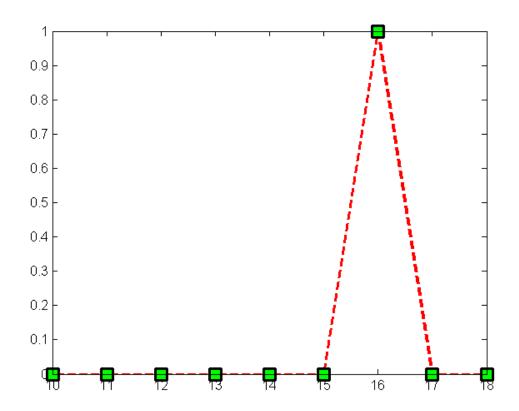


Person did not match The Target



Person did not match The Target





Person matched The Target



Person matched The Target



Person matched The Target



Person matched The Target



Person matched The Target



Person matched The Target



Person matched The Target

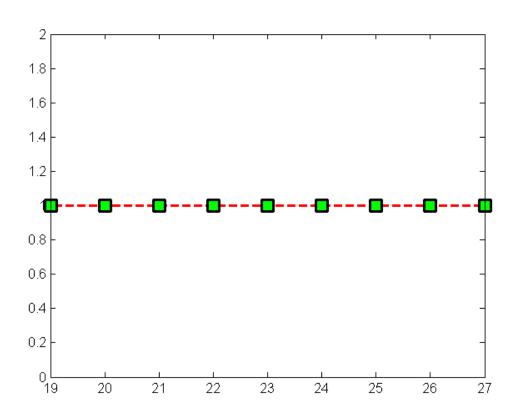


Person matched The Target



Person matched The Target





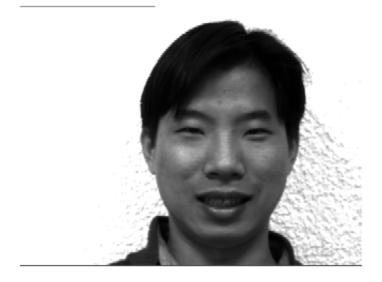
Person did not match The Target



Person did not match The Target



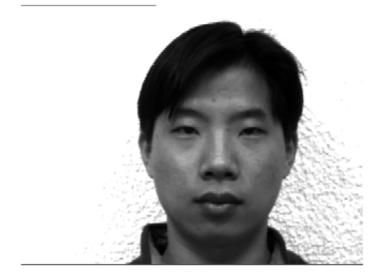
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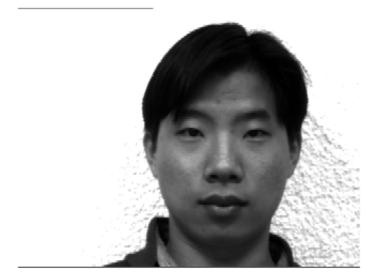
Person did not match The Target



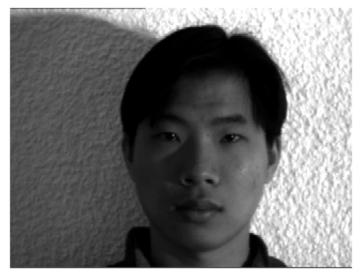
Person did not match The Target



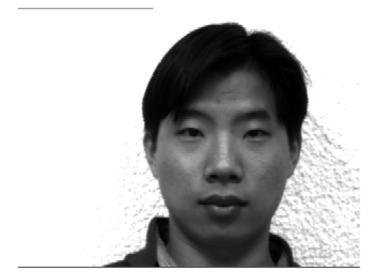
Person did not match The Target



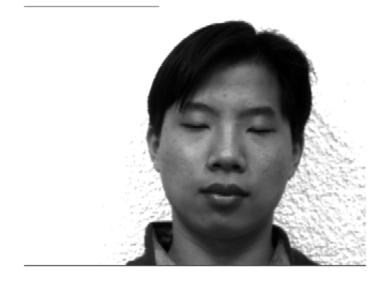
Person matched The Target

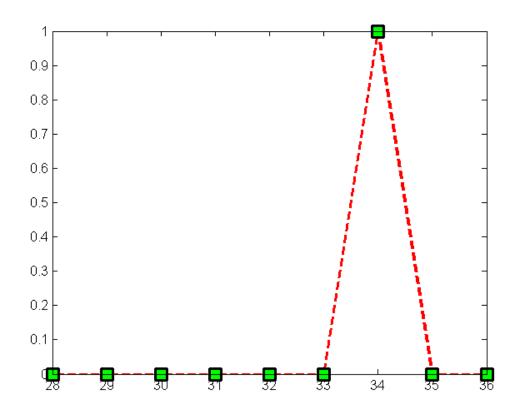


Person did not match The Target



Person did not match The Target





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