

**CSC 872**

**PATTERN ANALYSIS AND MACHINE  
INTELLIGENCE**

**FAST PROTOTYPING  
#3**

Submitted by

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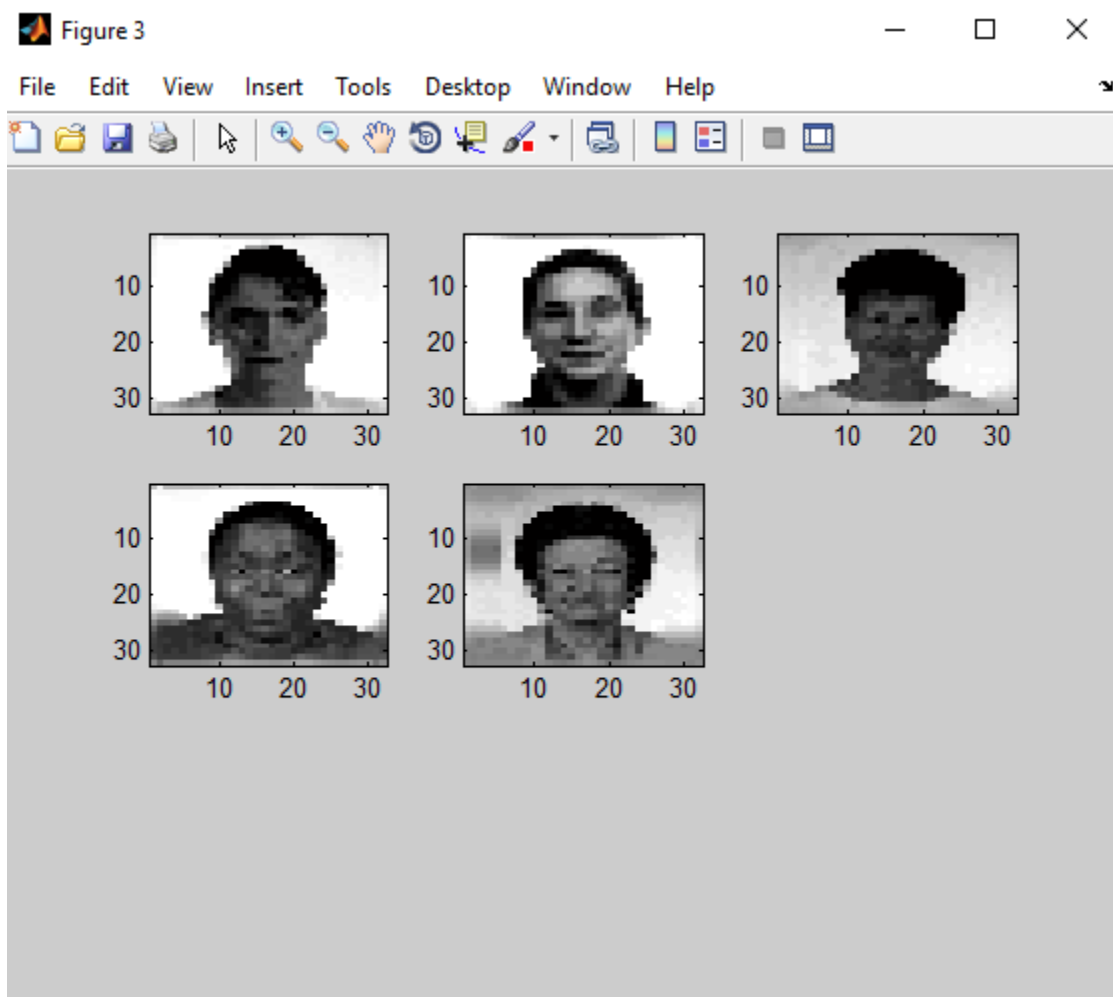


San Francisco State University

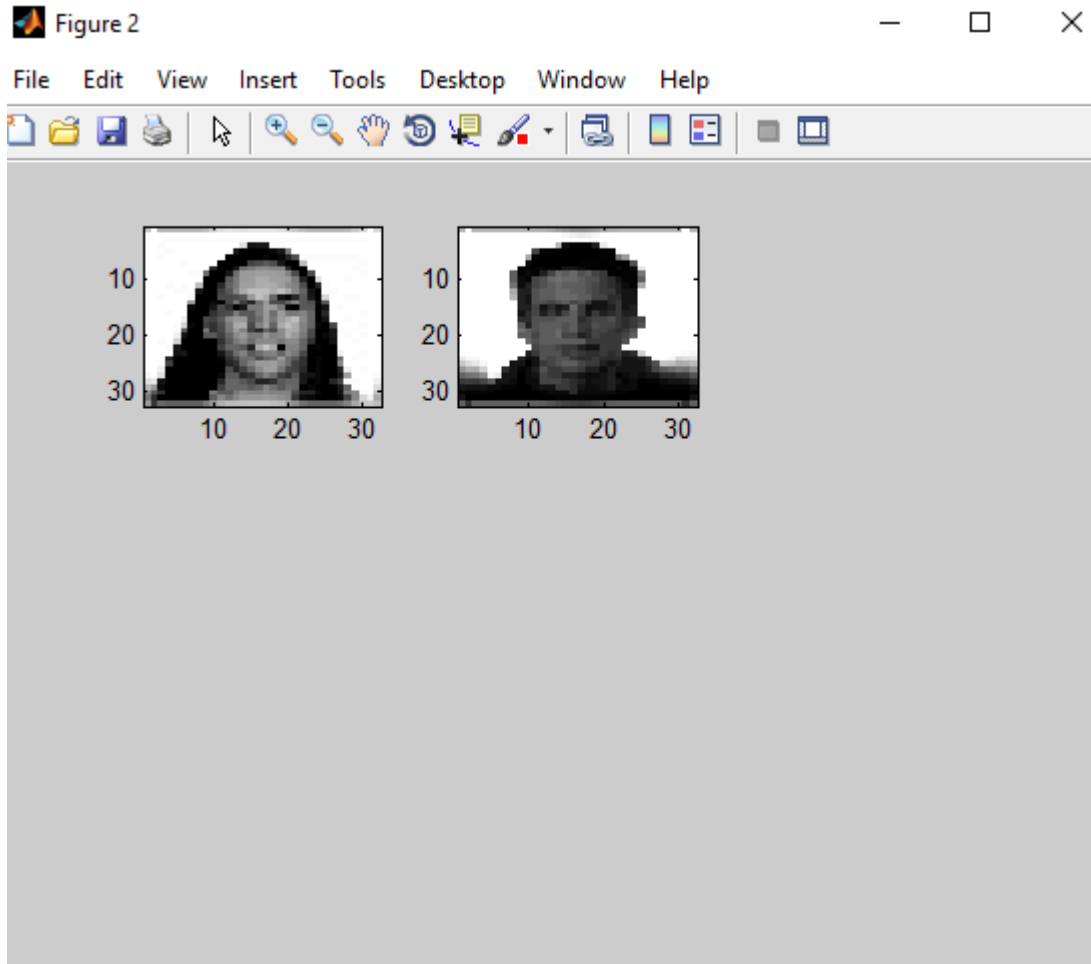
Output of the code:

After applying PCA for training, selecting top eigenvector equal to 20 and LDA classification while testing, to male and female folder images respectively I got the following output.

Unclassified Female Images:



Unclassified male Images:



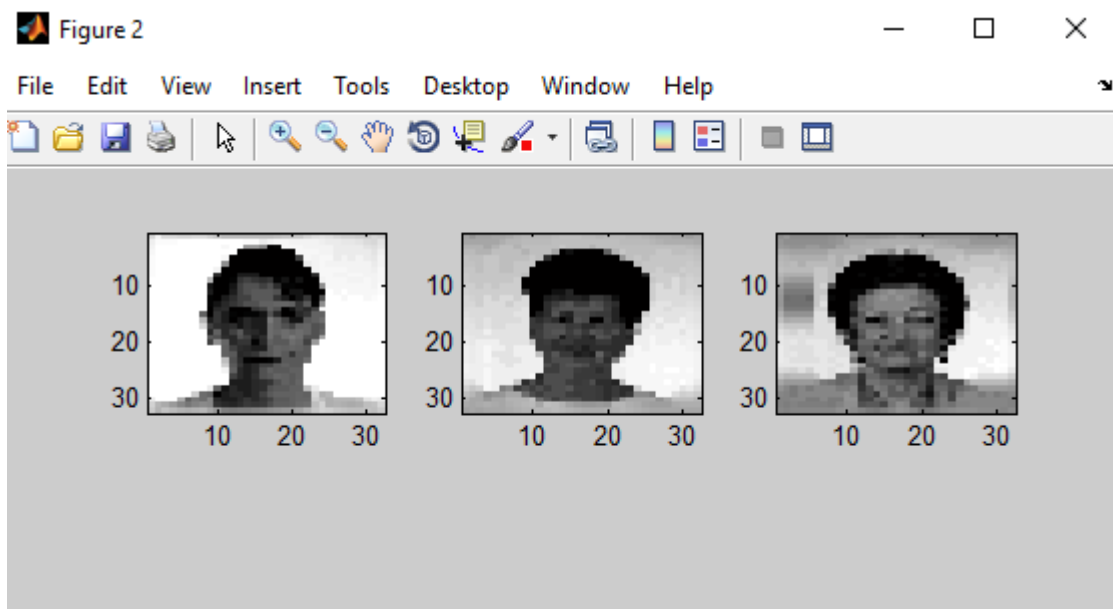
Accuracy:

As total unclassified images are 7 , accuracy can be calculated as :

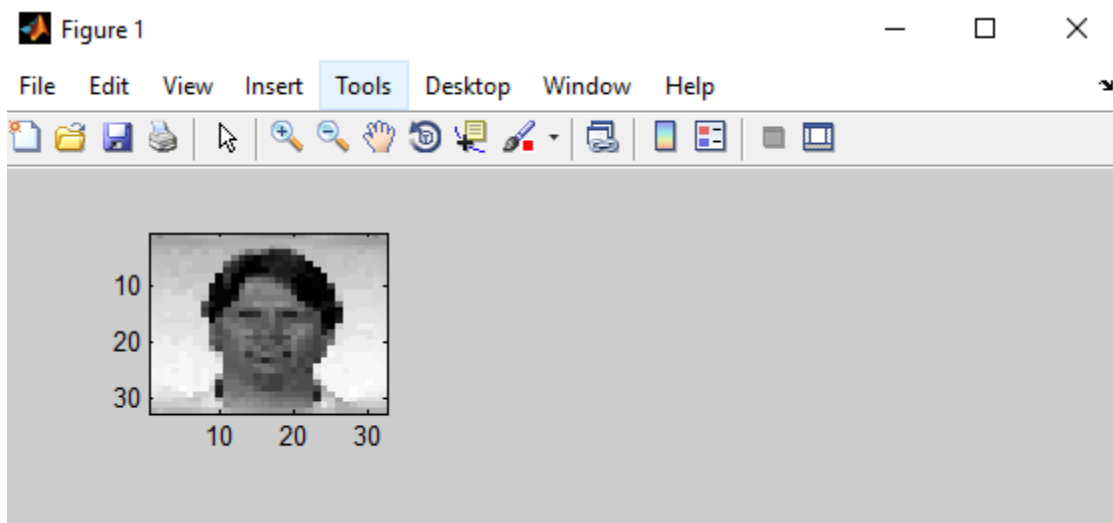
$$\{[99(\text{all images}) - 7 (\text{unclassified images}) ]/99(\text{total images})\} * 100 = \mathbf{92.92\%}$$

With top eigen vectors selected = 50 , I got following output :

Unclassified females :



Unclassified males:



Accuracy = 95.95%

Thus , we can see that as number of top eigenvectors selected increased , classification accuracy also increased.