Q6 Report

Experimentally deduced a threshold parameter to classify an image being in the dataset or not

Recorded the variation of the following results with variation of threshold

1. **False negatives - if the image is one of the last 4 images of first 32 persons and the squared distance between eigenvectors is greater than threshold then this image is recorded as a false negative**
2. **Wrongly recognised - if the image is one of the last 4 images of first 32 persons and the squared distance between eigenvectors is less than the threshold but not correctly identified then this image is recorded as wrongly assigned**
3. **False positives - if the image is of the last 8 persons of the dataset and squared distance between the eigenvectors is less than threshold then this is recorded as a false positive**

The best result is observed for threshold equal to 1800 and the result are as follows -:

1. **False negatives = 26**
2. **False positives = 3**
3. **Wrongly recognised = 1**

Where total images = 208

And correctly classified = total - false negatives - false positives - wrongly recognised

correctly classified = 178

Note - Refer the html published report to view the results and code