Image Analysis and Object Recognition SoSe2022

Final Project SoSe2022

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Task 1

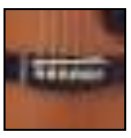
d. The Template matching produces different results when it is scaled up or scaled down

Before scaling of template

After template is scaled down

After template is scaled up

e. Exemplary Results

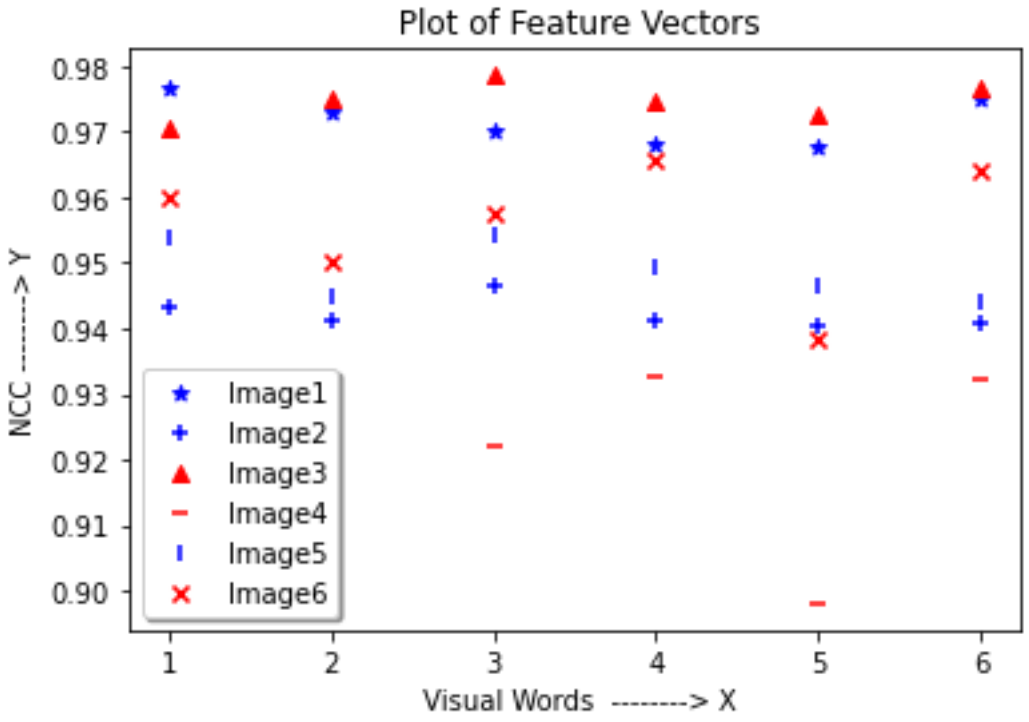


Task 2

a. Feature vector of all images

[0.9765759009496094
0.9434142192908879
0.9706744310100839
0.921644450356053
0.953700099793419
0.9598625686326585
0.972870957745455
0.9411536222502908
0.9748753435652696
0.9252713717314319
0.9447707643502927
0.9501041976937845
0.9702119342433213
0.9463605095024065
0.9785818010617313
0.921883392412825
0.9540926835733039
0.9574170293974006
0.9680525353056187
0.9411297770376515
0.9746518388727781
0.9326989190039723
0.9493836414108896
0.9654802136990205
0.9675863150764341
0.9405637151971145
0.9724716636262695
0.8980857864158507
0.9466190639423734
0.938526359258671
0.974962865815436
0.9406060873316718
0.9764689024435197
0.9324602858542445
0.9440927638261646
0.9639472593627063]

b.



c. Matlab code has been attached.

d. After running the feature vector of image 5 and 6 on the Training set of 1to 4 image, for both the image we got resultant as Violin.