

TASK 3 OUTPUTS

feature space {CM}; k =5; dim.red. {SVD}

Applying svd on the cm_fd space to get 5 latent semantics (showing only top 10 image-weight pairs for each latent semantic)...

Latent semantic no. 0

Image_ID	8570	-	Weight	0.08379938013632154
Image_ID	7784	-	Weight	0.07238472588049127
Image_ID	4152	-	Weight	0.060769224719766424
Image_ID	5114	-	Weight	0.05387212151769047
Image_ID	7774	-	Weight	0.05324887247523999
Image_ID	8614	-	Weight	0.05319742868629019
Image_ID	3072	-	Weight	0.0508399452179281
Image_ID	7798	-	Weight	0.050598074135948995
Image_ID	5118	-	Weight	0.05022770477320986
Image_ID	7040	-	Weight	0.04996996742218061

Latent semantic no. 1

Image_ID	8570	-	Weight	0.0708242114969575
Image_ID	7774	-	Weight	0.0654659454748679

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Image_ID	1788	-	Weight	0.04089406629514225
Image_ID	1796	-	Weight	0.040688152223479164

Latent semantic no. 4

Image_ID	8582	-	Weight	0.02577153311253714
Image_ID	8612	-	Weight	0.025608143819276414
Image_ID	7290	-	Weight	0.025578071187110515
Image_ID	7298	-	Weight	0.02535046780104084
Image_ID	7302	-	Weight	0.025316611409381136
Image_ID	7318	-	Weight	0.02521277976701421
Image_ID	8580	-	Weight	0.025201323062899246
Image_ID	6392	-	Weight	0.025170862056424635
Image_ID	2738	-	Weight	0.0251065168979951
Image_ID	6420	-	Weight	0.02510499876667636

feature space {RESNET}; k =5; alt. dim.red. {LDA}

Applying lda on the resnet_fd space to get 5 latent semantics (showing only top 10 image-weight pairs for each latent semantic)...

iteration: 1 of max_iter: 10

iteration: 2 of max_iter: 10

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iteration: 10 of max_iter: 10

Latent semantic no. 0

Image_ID	232	-	Weight	0.527624883934027
Image_ID	294	-	Weight	0.4935692184445949
Image_ID	238	-	Weight	0.4663024286585402
Image_ID	832	-	Weight	0.44777572628617457
Image_ID	254	-	Weight	0.4429147064629401
Image_ID	522	-	Weight	0.37939812923171684
Image_ID	252	-	Weight	0.3633398995719225
Image_ID	384	-	Weight	0.3626769302117395
Image_ID	492	-	Weight	0.35913152899218626
Image_ID	256	-	Weight	0.345355884928096

Latent semantic no. 1

Image_ID	1202	-	Weight	0.5115083436427273
Image_ID	1830	-	Weight	0.49814167739248916

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Image_ID	8642	-	Weight	0.5976118861485914
Image_ID	2972	-	Weight	0.5976076540556043

Latent semantic no. 4

Image_ID	1202	-	Weight	0.10076460444926877
Image_ID	232	-	Weight	0.10075529766105475
Image_ID	1830	-	Weight	0.10075055706613864
Image_ID	294	-	Weight	0.10074432823596924
Image_ID	1724	-	Weight	0.10072174868127542

Image_ID	1588	-	Weight	0.10072004476930081
Image_ID	8504	-	Weight	0.1007186154815303
Image_ID	1042	-	Weight	0.10071824313734666
Image_ID	1506	-	Weight	0.10071721546078308
Image_ID	238	-	Weight	0.10071721226442397