

TASK 5 OUTPUTS

feature space {AvgPool}; k=5; dim.red. {kmeans}

Applying kmeans on the given similarity matrix to get 5 latent semantics (showing only top 10 label-weight pairs for each latent semantic)...

Initialized centroids

Iteration 4 - Converged

Note: for K-Means we display distances, in ascending order

Latent semantic no. 0

| | | | |
|-------|----|---|-----------------------------|
| label | 90 | - | Distance0.32892272329969746 |
| label | 60 | - | Distance0.3775083857073132 |
| label | 95 | - | Distance0.39926812208093315 |
| label | 89 | - | Distance0.4246002553006171 |
| label | 72 | - | Distance0.5195317997904244 |
| label | 30 | - | Distance0.5409102035047411 |
| label | 16 | - | Distance0.6180309021389221 |
| label | 13 | - | Distance0.6308101616713481 |
| label | 70 | - | Distance0.6650708816205688 |
| label | 39 | - | Distance0.6654131462823251 |

Latent semantic no. 1

| | | | |
|-------|----|---|-----------------------------|
| label | 94 | - | Distance0.4350529222273966 |
| label | 8 | - | Distance0.4422331497928333 |
| label | 75 | - | Distance0.4652793763691037 |
| label | 11 | - | Distance0.4707311042027215 |
| label | 20 | - | Distance0.4709192500909307 |
| label | 35 | - | Distance0.49564640172714275 |
| label | 78 | - | Distance0.5016103169942934 |
| label | 64 | - | Distance0.5092474580419666 |
| label | 45 | - | Distance0.5097347400577312 |
| label | 88 | - | Distance0.5145289864107201 |

Latent semantic no. 2

| | | | |
|-------|----|---|-----------------------------|
| label | 16 | - | Distance0.3767293838064299 |
| label | 34 | - | Distance0.4056339161020644 |
| label | 7 | - | Distance0.41136936373300437 |
| label | 43 | - | Distance0.43966771787422126 |
| label | 13 | - | Distance0.44444675011041973 |
| label | 67 | - | Distance0.4618215427390176 |
| label | 59 | - | Distance0.4624026928609817 |
| label | 9 | - | Distance0.47708464746666585 |
| label | 62 | - | Distance0.4916181063466849 |
| label | 83 | - | Distance0.5227152039522647 |

Latent semantic no. 3

| | | | |
|-------|----|---|----------------------------|
| label | 73 | - | Distance0.4689821359067424 |
| label | 33 | - | Distance0.4798809036018853 |
| label | 81 | - | Distance0.4910492439329747 |
| label | 47 | - | Distance0.5021650246051097 |
| label | 71 | - | Distance0.5047949639596401 |
| label | 10 | - | Distance0.5191708870457331 |
| label | 82 | - | Distance0.5244638391575785 |
| label | 9 | - | Distance0.529901628232999 |
| label | 87 | - | Distance0.5421068979471271 |
| label | 77 | - | Distance0.5516056693006245 |

Latent semantic no. 4

| | | | |
|-------|----|---|----------------------------|
| label | 31 | - | Distance0.5250763754109391 |
| label | 5 | - | Distance0.5331913762394095 |
| label | 36 | - | Distance0.5347452423215421 |
| label | 58 | - | Distance0.5385636834484374 |
| label | 53 | - | Distance0.5411225199375898 |
| label | 68 | - | Distance0.5419292240863035 |
| label | 2 | - | Distance0.5533024079373133 |
| label | 49 | - | Distance0.5651531309897075 |
| label | 54 | - | Distance0.5744378860573579 |
| label | 44 | - | Distance0.5764839029894493 |

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

Applying kmeans on the given similarity matrix to get 5 latent semantics (showing only top 10 label-weight pairs for each latent semantic)...

Initialized centroids

Iteration 1 - Converged

Note: for K-Means we display distances, in ascending order

Latent semantic no. 0

| | | | |
|-------|-----|---|----------------------------|
| label | 56 | - | Distance0.5078837376965605 |
| label | 100 | - | Distance0.5082944283737307 |
| label | 63 | - | Distance0.5109584766064246 |
| label | 30 | - | Distance0.5125112618608927 |
| label | 16 | - | Distance0.5152144525896714 |
| label | 39 | - | Distance0.5152886797665173 |
| label | 23 | - | Distance0.546036781260073 |
| label | 15 | - | Distance0.5490677214673996 |
| label | 12 | - | Distance0.5570006656832791 |
| label | 13 | - | Distance0.5592056241258636 |

Latent semantic no. 1

| | | | |
|-------|-----|---|-----------------------------|
| label | 32 | - | Distance0.34288485434883725 |
| label | 83 | - | Distance0.3531738360140957 |
| label | 74 | - | Distance0.37110067196801555 |
| label | 43 | - | Distance0.4148244568155022 |
| label | 69 | - | Distance0.4394074259912836 |
| label | 65 | - | Distance0.4709755342008936 |
| label | 67 | - | Distance0.5484369507402523 |
| label | 64 | - | Distance0.6207974281203188 |
| label | 100 | - | Distance0.6499299398639763 |
| label | 13 | - | Distance0.6538042569647289 |

Latent semantic no. 2

| | | | |
|-------|----|---|-----------------------------|
| label | 53 | - | Distance0.37804953938307145 |
| label | 68 | - | Distance0.41958589886899733 |
| label | 76 | - | Distance0.4388687450131718 |
| label | 44 | - | Distance0.45132244877618344 |
| label | 36 | - | Distance0.47253797987924406 |
| label | 37 | - | Distance0.4942485535338009 |
| label | 12 | - | Distance0.5356986199041661 |
| label | 58 | - | Distance0.5554400886547359 |
| label | 54 | - | Distance0.5793498390939603 |
| label | 10 | - | Distance0.5983487848335294 |

Latent semantic no. 3

| | | | |
|-------|----|---|----------------------------|
| label | 20 | - | Distance0.4994676946801819 |
| label | 94 | - | Distance0.5005188748829994 |
| label | 75 | - | Distance0.5009807692389558 |
| label | 11 | - | Distance0.5010921016378568 |
| label | 7 | - | Distance0.5014506905369056 |
| label | 92 | - | Distance0.5021633086088783 |
| label | 73 | - | Distance0.502416016621177 |
| label | 93 | - | Distance0.5027732230939397 |
| label | 4 | - | Distance0.5028486996717586 |
| label | 78 | - | Distance0.5034217535861988 |

Latent semantic no. 4

| | | | |
|-------|----|---|-----------------------------|
| label | 87 | - | Distance0.10694843283352252 |
| label | 14 | - | Distance0.10694843283352254 |
| label | 76 | - | Distance0.6210334618347675 |
| label | 36 | - | Distance0.675496460846602 |
| label | 68 | - | Distance0.7608216345974752 |
| label | 53 | - | Distance0.7911539612020739 |
| label | 37 | - | Distance0.8292263011970864 |
| label | 10 | - | Distance0.8360058965954094 |
| label | 9 | - | Distance0.8394108966977034 |
| label | 7 | - | Distance0.8405579416874938 |