Cmpe 493 Introduction to Information Retrieval, Fall 2021
Assignment 4 - PageRank for Identifying Central People in News Articles

Zuhal Didem Aytaç - 2018400045

Top 50 People & PageRank Scores

1 reagan 0.06395675949116172
2 james-baker 0.021120725716682047
3 nakasone 0.01580355029313103
4 thatcher 0.013148932579695677
5 lyng 0.011207861440068998
6 stoltenberg 0.011061684380079576
7 Weinberger 0.009864797936449078
8 volcker 0.009701009311565034
9 howard-baker 0.009050916650196158
10 yeutter 0.008711627153938301
11 Gorbachev 0.008248373625463209
12 greenspan 0.00804288226548525
13 miyazawa 0.0072984059109055584
14 Gephardt 0.007291066707707078
15 kohl 0.0066639014065834595
16 poehl 0.006505604139364354
17 shultz 0.005882944917161854
18 ozal 0.005558198925168396
19 balladur 0.005236300192527268
20 Howard 0.00510323537058821
21 chirac 0.0050528892002990955
22 lawson 0.0046297703785830695
23 suharto 0.004627936524802533
24 papandreou 0.004476942472878785
25 Fitzwater 0.004446905029273464

26 Abe 0.004252683374216995
27 Mulroney 0.004160202711905951
28 bush 0.0041283172466293205
29 sumita 0.00379564681784276
30 Roosevelt 0.003736700095177991
31 Moore 0.0036975089780971896
32 Carter 0.0035999674177941104
33 Ruder 0.003591764505215481
34 Schneider 0.0035503411589295855
35 honda 0.0035364168835549533
36 Bentsen 0.0035082391600028033
37 saddam-hussein 0.00350085097745664
38 tamura 0.0034231611526124622
39 Schlesinger 0.0033662371356372486
40 Cochran 0.0032922505094540398
41 john-paul 0.0032304778195603352
42 Leahy 0.0032093676702198135
43 Byrd 0.003194637785548481
44 Kuranari 0.003185705037770275
45 keating 0.0031718371481128287
46 Reid 0.0031456429647673647
47 Nixon 0.0031338307904215427
48 Foley 0.0031102039514218117
49 Yamamoto 0.0030708721780569334
50 sprinkel 0.0030217778556180276

I believe the results make sense given that the data set is from the 1987 newswire. Most of the people are politicians of that time, like Ronald Reagan(1), James Baker(2), Nakasone(3), Ozal(18) or strong figures of different fields, like John Paul (41) of religion, Soichiro Honda (35) of industry.

Screenshot

Only part of the output is shown in the screenshot.

```
didemaytac@Zuhal-MacBook-Pro cmpe493-4 % python3 main.py data.txt
1 reagan 0.06395675949116172
2 james-baker 0.021120725716682047
3 nakasone 0.01580355029313103
4 thatcher 0.013148932579695677
5 lyng 0.011207861440068998
6 stoltenberg 0.011061684380079576
7 Weinberger 0.009864797936449078
8 volcker 0.009701009311565034
9 howard-baker 0.009050916650196158
10 yeutter 0.008711627153938301
11 Gorbachev 0.008248373625463209
12 greenspan 0.00804288226548525
13 miyazawa 0.0072984059109055584
14 Gephardt 0.007291066707707078
15 kohl 0.0066639014065834595
16 poehl 0.006505604139364354
17 shultz 0.005882944917161854
18 ozal 0.005558198925168396
19 balladur 0.005236300192527268
20 Howard 0.00510323537058821
21 chirac 0.0050528892002990955
22 lawson 0.0046297703785830695
23 suharto 0.004627936524802533
24 papandreou 0.004476942472878785
25 Fitzwater 0.004446905029273464
26 Abe 0.004252683374216995
27 Mulroney 0.004160202711905951
28 bush 0.0041283172466293205
29 sumita 0.00379564681784276
30 Roosevelt 0.003736700095177991
31 Moore 0.0036975089780971896
32 Carter 0.0035999674177941104
33 Ruder 0.003591764505215481
34 Schneider 0.0035503411589295855
35 honda 0.0035364168835549533
```