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1 /Users/vedantmahajan/PycharmProjects/news_seggregator/venv/bin/python /Users/vedantmahajan/PycharmProjects/
  news_seggregator/Main.py
2
3
4
5 -----WORD COUNT FOR EACH ARTICLE-----
6
7
8           Article 1  Article 2  Article 3  ...  Article 13  Article 14  Article 15
9 about                0          0          0  ...          0          1          1
10 accelerate           0          0          0  ...          0          0          0
11 accessory            0          0          0  ...          0          0          0
12 accord              1          0          0  ...          0          0          0
13 achieve             0          0          0  ...          0          1          0
14 ...                 ...          ...          ...  ...          ...          ...
15 would               0          0          0  ...          0          0          0
16 write              0          0          0  ...          0          1          0
17 year               0          1          0  ...          0          0          1
18 yet                0          0          0  ...          0          0          0
19 you                0          0          0  ...          0          1          0
20
21 [690 rows x 15 columns]
22
23
24
25 ----- TDIDF SCORES TRANSFORMED FROM BAG-OF-WORDS MODEL -----
26
27
28           Article 1  Article 2  Article 3  ...  Article 13  Article 14  Article 15
29 about          0.000000  0.000000          0.0  ...          0.0      1.980829      1.980829
30 accelerate      0.000000  0.000000          0.0  ...          0.0      0.000000      0.000000
```

31	accessory	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
32	accord	3.079442	0.000000	0.0	...	0.0	0.000000	0.000000
33	achieve	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
34	...	...	...	...	...	...	...	...
35	would	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
36	write	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
37	year	0.000000	2.386294	0.0	...	0.0	0.000000	2.386294
38	yet	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
39	you	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
40								
41	[690 rows x 15 columns]							
42								
43								
44								
45	----- DIRECTLY OBTAINING TDIDF SCORES USING TfidfVectorizer-----							
46								
47								
48		Article 1	Article 2	Article 3	...	Article 13	Article 14	Article 15
49	about	0.000000	0.000000	0.0	...	0.0	1.980829	1.980829
50	accelerate	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
51	accessory	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
52	accord	3.079442	0.000000	0.0	...	0.0	0.000000	0.000000
53	achieve	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
54	...	...	...	...	...	...	...	...
55	would	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
56	write	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
57	year	0.000000	2.386294	0.0	...	0.0	0.000000	2.386294
58	yet	0.000000	0.000000	0.0	...	0.0	0.000000	0.000000
59	you	0.000000	0.000000	0.0	...	0.0	3.079442	0.000000
60								
61	[690 rows x 15 columns]							

```
62  \n\nAre the tf-idf scores the same?
63  0                               YES
64
65
66
67  Actual topic of the Article 1 is -> Music news .
68  Actual topic of the Article 2 is -> hong kong news .
69  Actual topic of the Article 3 is -> Education news .
70  Actual topic of the Article 4 is -> Black lives matter news .
71  Actual topic of the Article 5 is -> railway news .
72  Actual topic of the Article 6 is -> australia cricket tourism news .
73  Actual topic of the Article 7 is -> apple tech car news .
74  Actual topic of the Article 8 is -> Fb Deepfakes news .
75  Actual topic of the Article 9 is -> Ai and climate change news .
76  Actual topic of the Article 10 is -> Quantum computing in business news .
77  Actual topic of the Article 11 is -> Rayshard Brooks case .
78  Actual topic of the Article 12 is -> US open news .
79  Actual topic of the Article 13 is -> Covid 19 news .
80  Actual topic of the Article 14 is -> spaceX news .
81  Actual topic of the Article 15 is -> Sushant singh rajput news .
82
83
84  Topics of the news articles detected using TFIDF scores :
85
86  Article 1      billboard
87  dtype: object
88  Article 2      hong
89  dtype: object
90  Article 3      university
91  dtype: object
92  Article 4      life
```

```
93 dtype: object
94 Article 5      engine
95 dtype: object
96 Article 6      australia
97 dtype: object
98 Article 7      car
99 dtype: object
100 Article 8      deepfakes
101 dtype: object
102 Article 9      ai
103 dtype: object
104 Article 10     business
105 dtype: object
106 Article 11     brook
107 dtype: object
108 Article 12     tennis
109 dtype: object
110 Article 13     disease
111 dtype: object
112 Article 14     software
113 dtype: object
114 Article 15     actor
115 dtype: object
116
117 Process finished with exit code 0
118
```