$\begin{array}{ll} {\tt Name} & {\tt Arnav~Kumar~Sinha} \\ {\tt Roll~No.} & 22075013 \end{array}$

Course B.Tech CSE

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Examples

NOTE: A common theme among the top matches are that they have smaller length and match some relevant terms. This may be due to using $(1 + \log(1 + tf)) \cdot \log \frac{N}{idf}$ as the weighting function. Since the documents themselves are not very large, the sublinear tf term is not helping that much.

Indian Economy Technology Startup

```
Courry as a sequence of double quoted terms

April 1217 is east.

April
```

Figure 1: indian-economy-technology-startup

matching weight	doc name
4.356	TELEGRAPH_UTF8/2005_utf8/business/1050504_business_story_
4.163	TELEGRAPH_UTF8/2005_utf8/business/1051215_business_story_
3.24	TELEGRAPH_UTF8/2004_utf8/business/1041103_business_story_
3.201	TELEGRAPH_UTF8/2007_utf8/business/1070820_business_story_
3.081	TELEGRAPH_UTF8/2007_utf8/business/1070828_business_index.
2.375	TELEGRAPH_UTF8/2005_utf8/calcutta/1050424_calcutta_story_
2.264	TELEGRAPH_UTF8/2007_utf8/foreign/1070606_foreign_story_78
2.199	TELEGRAPH_UTF8/2004_utf8/opinion/1041123_opinion_story_40
1.994	TELEGRAPH_UTF8/2004_utf8/calcutta/1041003_calcutta_story_
1.426	TELEGRAPH_UTF8/2004_utf8/business/1040923_business_story_

As, it can be seen in the image, startup is a relatively rare term and hence has a much higher term weight. Hence the results are skewed for that.

For example, in the topmost document:

" ... he said, adding that their **startup** would depend on compliance with govern ... "

Other matches are also the terms. They are lower down the list primarily because they are much larger documents.

IIT BHU Varanasi

Figure 2: iit-bhu-varansi

5.82	TELEGRAPH_UTF8/2006_utf8/nation/1061118_nation_story_7018129.utf8
5.12	TELEGRAPH_UTF8/2006_utf8/nation/1061125_nation_story_7048473.utf8
4.463	TELEGRAPH_UTF8/2005_utf8/nation/1050914_nation_story_5235787.utf8
4.054	TELEGRAPH_UTF8/2007_utf8/nation/1070701_nation_story_7999825.utf8
3.312	TELEGRAPH_UTF8/2006_utf8/nation/1060403_nation_story_6049919.utf8
3.307	TELEGRAPH_UTF8/2005_utf8/nation/1051027_nation_story_5404782.utf8
3.222	TELEGRAPH_UTF8/2004_utf8/jobs/1041221_jobs_story_4124852.utf8
3.22	TELEGRAPH_UTF8/2007_utf8/nation/1070802_nation_story_8137493.utf8
3.193	TELEGRAPH_UTF8/2006_utf8/nation/1060328_nation_story_6023320.utf8
3.074	TELEGRAPH_UTF8/2005_utf8/nation/1050914_nation_story_5235726.utf8

The matches are relevant to BHU, IITs etc. More finegrained results can be obtained by further adding relevant terms like technology, or maybe about specific departments chemical

Bollywood Movies Uttar Pradesh

```
Query as a sequence of double quoted terms

Input ESIT to exit

e.g.: 'helto' 'watch' 'watch'

policy 'watch' 'watch'

e.g.: 'helto' 'watch' 'watch'

policy 'watch' 'watch'

policy 'watch' 'watch' 'yatch'

| "bollywood 'real 'watch' 'gradesh'

| "bollywood works 'uttar' 'pradesh'

| "bollywood 'real 'watch' 'gradesh'

| "bollywood 'real 'watch' 'gradesh'

| "bollywood 'real 'watch' 'defallidic(c/class 'int'), ('bollywood': 6.00459202890871, 'mov'): 6.3966927658932, 'uttar': 5.79686279284372, 'pradesh': 4.0967745417532995))

| "bollywood': 6.004592, 'watch'

| "bollywood': 6.004592, 'watch'
```

Figure 3: bollywood movies uttar pradesh

5.82	TELEGRAPH_UTF8/2006_utf8/nation/1061118_nation_story_7018129.utf8
5.12	TELEGRAPH_UTF8/2006_utf8/nation/1061125_nation_story_7048473.utf8
4.463	TELEGRAPH_UTF8/2005_utf8/nation/1050914_nation_story_5235787.utf8
4.054	TELEGRAPH_UTF8/2007_utf8/nation/1070701_nation_story_7999825.utf8
3.312	TELEGRAPH_UTF8/2006_utf8/nation/1060403_nation_story_6049919.utf8
3.307	TELEGRAPH_UTF8/2005_utf8/nation/1051027_nation_story_5404782.utf8
3.222	TELEGRAPH_UTF8/2004_utf8/jobs/1041221_jobs_story_4124852.utf8
3.22	TELEGRAPH_UTF8/2007_utf8/nation/1070802_nation_story_8137493.utf8
3.193	TELEGRAPH_UTF8/2006_utf8/nation/1060328_nation_story_6023320.utf8
3.074	TELEGRAPH_UTF8/2005_utf8/nation/1050914_nation_story_5235726.utf8

```
> Query as a sequence of double quoted terms
> input EXIT to exit
> e.g.: "short" "watch"
> e.g.: "hello" "world" "web"
> EXIT

bye :)
```

Figure 4: bye:)