

Parsing

Reading .xml files

♦ liberary :ElementTree

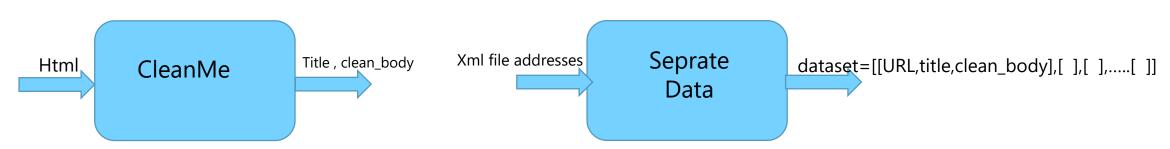
Separate title, body and url

- * liberary : BeautifulSoup
- * Challenge: some websites didn't have title

Remove tags and sort text

- * liberary : BeautifulSoup
- * Challenge: Some signs that were not tagged remain

Functions:



Indexing

Calculating TF-IDF:

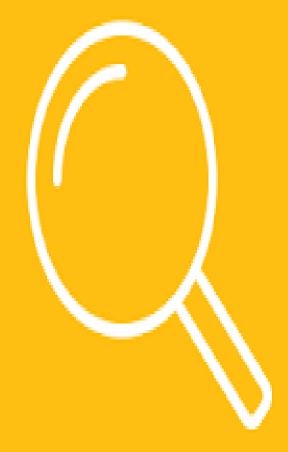
- Title: title_tfidf [(doc1,token:tfidf),(),()]
- Body: body_tfidf [(doc1,token:tfidf),(),()]

Formula:

TF-IDF = body_tf-idf * body_weight + title_tf-idf*title_weight

Alpha: weight of body

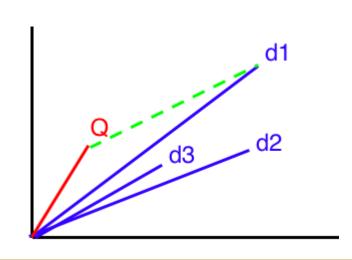
1- Alpha =weight of title



Ranking

Ranking:

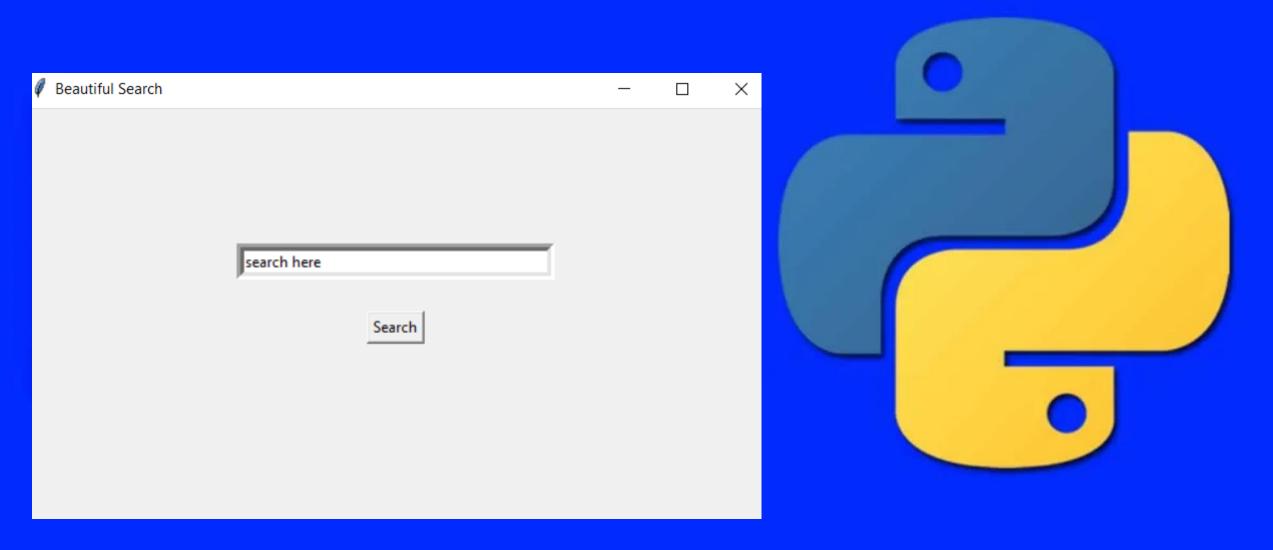
- Matching Score
- ✓ Cosine Similarity





GUI

From tkinter liberary



Challenges:

- 1. The sites are Persian
- 2. The content of the sites is the same
- 3. Most of the links are dead
- 4. Data volume

