Text Processing Assignment Feedback

Task: Document Retrieval

Student: Ruiqing Xu (acb19rx)

Submitted: Thursday, 4 November 2021 21:20:14 o'clock GMT

(Deadline: 3pm, Friday, 12 November, 2021)

Total Mark: 20/25 Final Mark (after any late penalty): 20/25

Automatic Test Results:

F- SCORE S:					TIME S:				
	stp - /st m-	stp+/s tm-	stp - /st m+	stp+/s tm+		stp - /st m-	stp+/s tm-	stp - /st m+	stp+/s tm+
TFIDF	0.1	0. 19	0.2	0. 24	TFID F	7. 5 6	4. 73	7. 1 1	4. 63
TF	0.0	0. 15	0.1	0. 17	TF	4.9	3. 29	4. 7	3. 12
BINAR Y	0.0	0. 12	0.0	0. 15	BINA RY	4. 3 5	3. 05	4. 1 7	2. 88
PRECISI ON:					RECA LL:				
	stp -	stp+/s tm-	stp -	stp+/s tm+		stp -	stp+/s tm-	stp -	stp+/s tm+

	/st m-		/st m+			/st m-		/st m+	
TFIDF	0.2	0. 22	0. 2 6	0. 27	TFIDF	0. 1 6	0. 17	0. 2	0. 22
TF	0.0	0. 17	0. 1	0. 19	TF	0.0	0. 13	0.0	0. 15
BINARY	0.0	0. 13	0.1	0. 16	BINAR Y	0.0	0. 10	0.0	0. 13

Implementation and Code Style: 12/15

Functionality:

All configurations of the system have been successfully implemented and achieve good performance with recall, precision and f-measure scores at the level or close to the level of the best known scores.

Efficiency:

Reasonable times achieved for all settings, but substantially better times (i.e. < 1 second) can be achieved for all settings. Note that you can compute all IDFs in advance if the term-weighting scheme is TFIDF, and you can drop query vector sizes when calculating the cosine similarity.

Code Style:

Code is well-structured, with appropriate use of comments and good choice of variable names.

Report: 8/10

Description of implementation:

You have explained all term-weighting schemes. However, a description of the principal steps in processing and/or the principal data structures used (their structure and intended use) is more relevant for the report.

Results:

Full and relatively clear statement of results. Graphical and use of colours can heelp to make comparisons between numbers easier to grasp.

Discussion of results:

Good observations regarding the use of stoplists and stemming and the impact of different term weighting schemes.