Assignment #2 Answer Form

TOTAL POINTS 7

1. Which document does the simple profile predict user 1 will like best? 1 point

- ○ doc1
- ○ doc2
- ○ doc3
- ○ doc4
- ○ doc5
- ○ doc6
- ○ doc7
- ○ doc8
- ○ doc9
- ○ doc10
- ○ doc11
- ○ doc12
- ○ doc13
- ○ doc14
- ○ doc15
- ◉ doc16
- ○ doc17
- ○ doc18
- ○ doc19
- ○ doc20

2. What score does that prediction get? 1 point

6

3. How many documents does the model predict User 2 will dislike (prediction score that is negative)? 1 point

4

4. Part 2 1 point

Using the new model, the same document from above is still User 1's highest-scoring document. Which document is now the second-highest scroring?

- ○ doc1
- ○ doc2
- ○ doc3
- ○ doc4
- ○ doc5
- ◉ doc6
- ○ doc7
- ○ doc8
- ○ doc9
- ○ doc10
- ○ doc11
- ○ doc12
- ○ doc13

- doc14
- doc15
- doc16
- doc17
- doc18
- doc19
- doc20

5. What prediction score does it have? 1 point

1.370923

6. Part 3 1 point

What's user1's prediction for doc9 in the new IDF weighted model?

0.179067

7. Look at doc6 for user 2. It was moderately positive before and now is slightly negative. Why did that change? 1 point

- (selected) Because doc6 has two attributes, a common one that the user really likes (Europe) and rare one the user dislikes (Baseball). In prior models, the fact that the user liked Europe more than s/he disliked baseball was decisive, but this model recognizes that Baseball is rarer than Europe, and therefore should have more weight (after all, there are plenty of other articles about Europe).
- Because the user's profile keeps changing?
- Because the article wasn't actually that good to begin with.

- ○ Because all the numbers went down in the new model.

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