



ITI AI PRO Graduation Project

News Feed Summarization and Recommendation

December 20th, 2021

“After login, he will be seeing top articles according to his preferences in addition to top trending articles found in home page.”

- *There will be categories widget where he can select a certain category to be redirected to top articles in such category*
1. The top articles according to his preferences: These are the recommended or the history ones that are assigned to the user

Ans :- Just top trending Articles in this category.

2. The top trending articles: How are you going to obtain the top trending articles in general?

Ans :- We going to use the users interactions to obtain the most frequent articles and then we split them into the categories to obtain the top in each category.

3. On the page, how many articles will be shown from the top articles or it will be shown all?

Ans :- We will just show top 5 for now as we see that is the most convenient for the first milestone and also we not aiming to consume time on the Web interface rather than the machine learning part.

4. What is the top **k**? Is it 5 or 10 for example?

Ans :- Yes, for now we choose it as 5 Articles per user even for cold start.

5. Are the current users have articles assigned to all categories? If this is not the case, then it is better to show the categories of interest to the logon user?

Ans :- No, the current users may only have interest in one category or more, it doesn't have to cover the whole subcategories, that is why content-base isn't suitable, and that's why we used matrix factorization approach to recommend articles out of this categories of interest but may be interesting to the user.

For new user: you meant 3 categories or subcategories?

- *Enable new user to register and manually select his 3 subcategories and then show top articles in these subcategories*

Ans :- We meant sub-categories as there are more different than subcategories than categories and this was the scope we agreed on with Eng. Ahmed that we going to recommend using Articles or Subcategories.