Project Implementation Report

Algorithm designed considering these 2 cases:

Case 1 : If some of the content of the post selected for predicting “likes” is similar to content of past posts(remaining 80%).

2 hashmaps are mantained where first hashmap stores the total “likes” of all the words which might be present in multiple posts and the second hashmap stores the corresponding number of posts in which these words are present;

During Prediction Analysis, there will be atleast 1 word “w” which is present both in the current as well as previous posts and the mean of the average liking of such words “w” in the previous posts helps us in predicting the number of likes for our new posts. Here average liking of a word w is determined by dividing the total number of likes by their total occurrences using the above 2 hashmaps.

Case 2 : Content of current post and older post are completely different.

For this case, since there will be no relation of the previous post content with the new post content, so the number of likes will be solely dependent on how the user is performing in his latest posts i.e. how much other people or his friends are liking his posts for the past few days.

For this, algorithm similar to sliding window algorithm has been implemented where k is 4 and it will slide by 1 each time a post is added. Otherway round, as an actual implentation, average of latest 4 posts is contributed towards the number of “likes” predicted.

Mean of the Difference of likes between each of the 80% posts is calculated and most probalbly number of likes of the posts are assumed to lie between the above mean result + the mean difference. So, random generator has been used to randomly generate any number between 0 and difference.

Akash Aggarwal 2014008
Rohan Juneja 2014156