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A NOVEL APPROACH TO FILTER UNWANTED WORDS FROM SOCIAL NETWORK SITES

Bhagyashri Raut, Pooja Lad, Bhagyashree Kangane, Prof. S. S. Thite
Department Of Information Technology
Savitribai Phule University Pune.
Bharti Vidyapeeth College of Engineering For Women, Pune, India

ABSTRACT

In today's Online social networks (OSNs) there are basically some fundamental issues occurs while using the social networking sites people have lot of friend on social sites and some of them post unwanted word on there private wall and it sometime disturbed them. We propose a system allowing OSN user have a direct control on the messages posted on their walls. This is achieved through the LDA algorithm which is used in the system, that allows users to customize the filtering criteria to be applied to their walls, and a Machine Learning based LDA algorithm automatically filter the word and doesn't post on the user wall and user get block who post unwanted word on the wall. User have authority to unblock the block user if he/she want to unblock.

Index Term - Online Social Networks, Information Filtering, Short Text, Classification Policy-Based Personalization, Facebook API's.

KEYWORDS: OSN (Online Social Network), LDA (Latent Dirichlet Allocation), FR(Filtering Rule), BL Black List.

INTRODUCTION

As we know now a days the various sites are available on internet globally and the people uses the sites in large amount. In those sites people posts their messages and the many people join the posts. But some of people comments by using very bad words and the other peoples get disturbed and because of these words the people live the discussion in between. To avoid these problems, we are going to introduce the OSN system which will be helpful for many peoples. Information filtering will be the provide user authority to automatically filter the word which is posted by the friend of user on their own walls. There will be little support will provide in today's OSN which is not filter unwanted word from user walls. For example, Facebook allow users state the who will post message on user wall (i.e. friends, friend of friend or group of friends). We used the Machine Learning (ML)Latetent Drichllet Allocation techniques to automatically filter the unwanted word. Moreover, the speed in performing the learning phase creates the premise for an adequate use in OSN domains, as well as facilitates the experimental evaluation task. We are using filtering rule to filter the words which can not display on the user wall that words get automatically filter and user can get better service on the OSN.

BACKGROUND

In the existing system naive baye's machine learning algorithm will be used for short text message categorization which is less flexible than LDA algorithm and naive more complexible. The existing system is no content-based preferences are supported so, it is not possible to prevent unwanted posts or comment such as policy making and doesn't matter of user who post them directly on the wall. Wall information are contributed by short text for which traditional classification methods such as a naive baye's machine learning algorithm having lots of limitations since short text do not provide sufficient word occurrences. Database size used in exiting system also limited and which is one of the mark limitation in OSN.

SOCIAL NETWORKING

In today's there are lots of social networking sites available to connect the people from one country to another but some people misuses these sites or worldwide by posting vulgar worlds, posts and comment and disturbers the people badly so we are presented a system which filters these vulgar words or comments and block the user automatically for days.

OSN

Online Social Networks (OSN's)are today's one of the most popular interactive medium for communication, which share a considerable amount of information in the form of free text, image , audio and video data. In OSN's information filtering can also be used for sensitive purpose and possibility of posting or commenting other post on public or private areas. Today's OSN's provides a support to prevent unwanted posts or messages on user to insert message in their walls (i.e. friends or friends of friends etc.). And user posting the vulgar words will be block manually but in OSN system, the user who is member of OSN only able to posts the messages and blocks the user posting unwanted message automatically and uses the process of blacklist explained in system architecture of our presented paper.

FACEBOOK API

The presented system aims to investigate the utility features for detecting the vulgar words, posts, comment done on user's timeline wall system will make use of the FACEBOOK 4J and FACEBOOK GRAPH API to integrate and communicate the system with facebook. This facebook API can be easily available in term facebook for developers so using these API we can directly logged into the OSN system and communicate with each other and share post.

PROPOSED SYSTEM

In proposed system we are introducing the new concept to prevent the discussion on the malicious posts and comments. With facility of uploading and downloading audio, video images files. Identifying the vulgar comments and posts and removing those unwanted messages from the user wall, it is the main goal of our project.

SYSTEM ARCHITECTURE

In today's OSN there is high chance of posting unwanted content on particular public/private wall called in general wall. So, to control this type of message we can implement automated system to filter unwanted message on osn user wall.

We are using machine learning LDA algorithm to filter the word automatically based on the content. OSN System screen will ask for the registration or log in screen after log in to the system for accessing the system function user will need to authenticate to facebook login page .After login to the system user see the friend's request, send the friend request, see the post, post message on user wall, manage the profile. When his/her friend contact tries to post message which is intercepted by filtering wall. System will check the type of message whether it will social, vulgar, Non-Neutral, Neutral .Calculate the threshold value of the message. If the message is unwanted then message goes back to the user and it will not posted on user wall. When user friend repeatedly sending this type of message then that person will directly blocked.
OSN System distribute in 5 models:
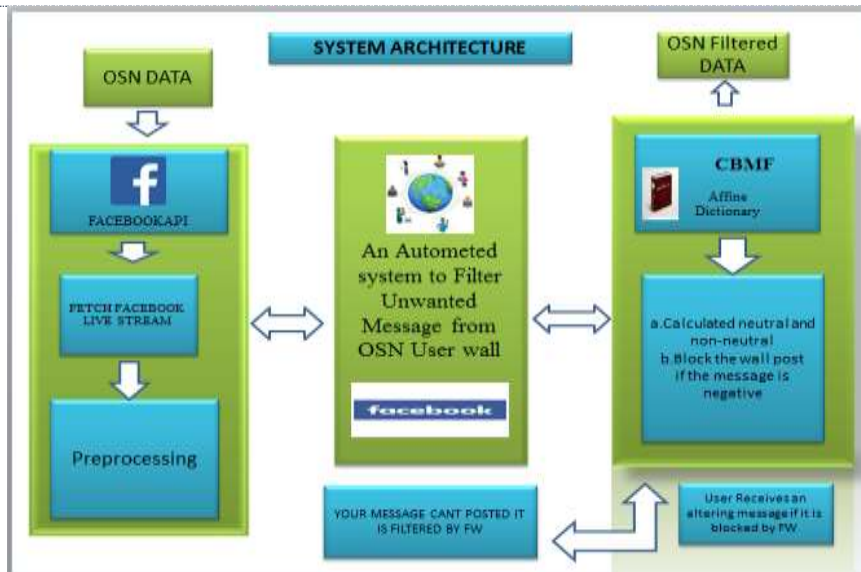
MODULE DESCRIPTION
1. FILTERING RULE
Filtering rule module perform the main task of to filter message. Identify message category. There is Number of message category
1.Terriosm: This domain will contain words related terriosm like bomb, blast, terrorist.
2.Criminal:This domain contain words related to criminal intension like murder, kill, attack, smugglers.
3.Vulgar: This type word showing the vulgarity of the message.
4.Political:This domain will contain words that may harm social stability which may result in defamation disturbance among people. Adding this type of word in the dictionary. Filtering rule check the threshold value of the message.
2.BLACK LIST
 Black list mechanism to avoid message from undesired creators. Black list module directly managed by the system. The user friend repeatedly send unwanted message on user wall, person automatically blocked and user have authority to unblocked the block if he/she want to unblock.
3.ONLINE ASSISTANT SETUP
Online assistant setup(OSA) setting thresholds to filter rules, by conceiving and implementing within FW, procedure. OSA presents the user with a set of messages selected from the dataset. Online setup assistant(OSA) perform the main role in OSN .OSA calculate threshold value as per the word contain in their message, send the threshold value to filtering module.
4.OSN ADMIN
In this module, the admin manages all user's information including posting comments in the user status box. Admin can also enable additional features in their owned page like user list, Add word in data dictionary, set the threshold value ,manage the OSN system.
5.OSN USER
OSN provide user friendly GUI like facebook.OSN user manage their profile, send the friend request, accept the friend request, send the post on wall.

FUTURE SCOPE
1) As the future work and our contribution enhance the system which will be able to filter the images, video which are vulgar or unwanted words containing in the images also be filter by using the more powerful machine learning algorithm for filtering the messages and video.
2) Future work concentrates on the video filtering and development machine can be done to change learning process by making itself trained by online learning mechanism.
3) So, it will replaces the usage of the database of size.

CONCLUSION

 In this, presented a system to filter unwanted messages posts or comments from OSN user walls. The system utilizes a machine learning algorithm i.e Latent Dirichlet Algorithm(LDA) which is a soft classifier for content-reliable. Filtered wall and decides the words which are vulgar based on their given threshold value in CBMF dictionary and maintains relationship with the blocked user so, user has authority to unblock the block user if he want to unblock. Even if we have complemented our system with an online FR threshold, system will be easily improved by average OSN users which is out of scope of the presented paper we used FACEBOOK API's in our paper for logging into the OSN system recent system may having problems related to the less complexible algorithm and database size but in the presented paper we tried to solve these types of problems.

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