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DEPRESSION DETECTION ON SOCIAL MEDIA WEBSITE

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Abstract: Human feelings like despair are internal sentiments which might be frequently uncovered by the way the person behaves. If such feelings can be analyzed and determined from the character's social activities inside the virtual international, it may be very beneficial to recognize these behaviors. To discover depressive moods, detecting words that specific negativity of their social media messages can be step one. depression doesn't just affect the man or woman himself, it can affect his buddies, family, co-workers, and every person around him. in addition, it may have an impact on how he plays at work or his attention level, in short it may negatively affect productivity. To apprehend if an Instagram is a kind system person may want to showcase melancholy over a period of time, then the gadget might be able to pick out the depressed person based totally on his post and chats, which incorporates emotional kind key phrases.

Keywords: Depression detection, data mining, social media, PDD (Psychological Disorder Detection), OSN (Online Social Network), SNMD (Social Network Mental Disorder) classifier, feature extraction.

I INTRODUCTION

Depression detection from Social Networking sites has been studied broadly in previous years. These sites provide a platform for his or her users to share their life events, emotions, and everyday routine. Many researchers demonstrated that content generated by the users is efficient thanks to understanding their status. By mining user-generated content, depression is often predicted. By collecting all the required and relevant information from the social networking sites from the posts, we will predict the person's mood or negativity. This survey paper focuses on prior research done regarding detecting depression levels supported content from social network sites.

II LITERATURE SURVEY

1. Depression Analysis from Social Media Data in Bangla Language using Long Short Term Memory (LSTM) Recurrent Neural Network Technique

Author: Abdul Hasib Uddin, Durjoy Bapery, Abu Shamim Mohammad Arif

Description:

They showed the effects of hyper-parameter tuning and how it can be helpful for depression analysis on a small Bangla social media dataset. This result will help psychologists and other researchers to detect depression of

individuals from their social activities in a virtual world and help them to take necessary measures to prevent undesirable doings resulting from depression.

2. Depression Detection by Analyzing Social Media Posts of User

Author: Nafiz Al Asad and Md. Appel Mahmud Pranto

Description:

The objective of this paper is to propose a data-analytic-based model to detect depression of any human being. In this proposed model data is collected from the users' posts of two popular social media websites: Twitter and Facebook. The Depression level of a user has been detected based on his posts in social media

3. Facebook Social Media for Depression Detection in the Thai Community

Author: Kantinee Katchapakirin, Konlakorn Wongpatikaseree

Description:

Depression is one of the main psychological kingdom problems. It is a purpose of psychological disability and a monetary burden to a country. Around 1.5 Thai human beings go through melancholy and its occurrence has been developing fast. Although it is a serious psychological problem, a half of those that have

this emotional problem receive admission to intellectual fitness service. This ought to be an end result of many

elements together with having a lack of attention about the disease. One of the options would be presenting a device that melancholy would possibly be easily and early detected. This would assist humans to have in mind their emotional states and are searching for assistance from professional services. As we comprehend Facebook is the most famous social community platform in Thailand, if a depression detection device is developed it would be a top notch resource. This lookup employs Natural Language Processing techniques that can be used to strengthen a melancholy detection algorithm for the Thai language on Facebook where humans can use it as a device for sharing opinions, feelings, and existence events.

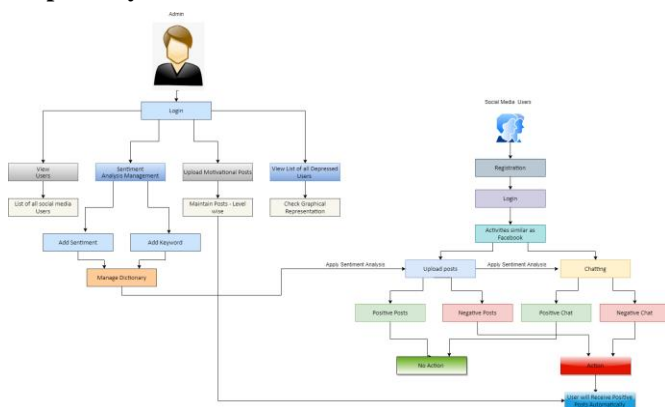
III EXISTING SYSTEM

Human emotions like depression are inner sentiments of human beings that expose actual behaviors of a person. Analyzing and determining these types of emotions from people’s social activities in a virtual world can be very helpful to understand their behaviors. Existing approaches could also be useful for analyzing common sentiments, like positive, negative, or neutral expressions. However, human emotions, like depression, are very critical and sometimes almost impossible to research using these approaches. So far we have many social media sites through which users interact among their friends and share their thoughts & feelings, but till now there is no system implemented which will help the admin to identify if someone is depressed.

IV PROPOSED SYSTEM

Proposed system will detect in advance if the user is depressed so that necessary action can be taken. It will be the first system in the market that will identify depression on social media sites. It will automatically send the motivational post to depressed users.

Proposed system architecture



V MODULES

5.1 Administrator:

- **View Users:** Administrator can see every one of the users enrolled in the system.
- **Sentiment Analysis Management:** Administrator can add the sentiments and keywords to the dataset as key value pairs .
- **Manage Dictionary:** Framework itself screens every one of the posts, visits and so forth of the web-based media client and applies sentiment analysis.
- **Upload Motivational Post:** Administrator transfers all that persuasive post, so the framework can send those posts on users' divider dependent on slant examination.
- **Maintain Post Level Wise:** Postes are characterized by the dependent fair and square of gloom of the end client.
- **View List of all Depressed Users:** Administrator can see every one of the depressed users in graphical presentation.

5.2 User:

- **Registration:** This module deals with the enrollment part for new users.
- **Login:** When the user gets enrolled, he/she login with the user ID and Password.
- **Activities like Facebook:** When the user logs their Account, he/she will go over the highlights and functionalities like Posting feeds, chatting.
- **System will continuously keep on monitoring:** System will consistently continue checking the posts and visits of clients. What's more, on the off chance that it recognizes the negative considered kind conduct, the system will consequently post the positive post on his/her based on their depression levels.

VI OUTPUT

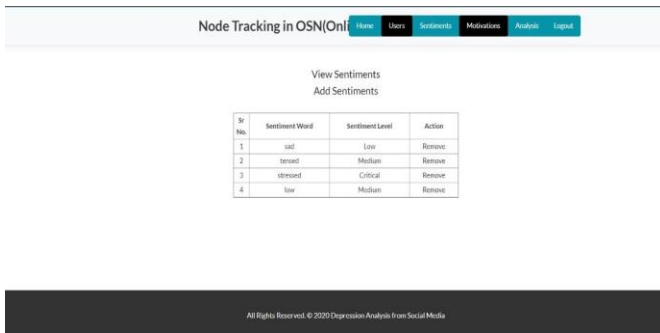
View Users (Admin Module):

Here admin can see the number of users who have registered on the website with their details and can remove them also.

Depressi						
Registered Users						
Sr no	Name	Gender	DOB	Email	Mobile Num	Action
1	Sajit Saha	male	2002-05-11	vj@.com	841975443	Remove
2	Jami Doe	female	2002-05-13	jami@gmail.com	578642048	Remove
3	Johi Doe	male	2002-04-27	johi@gmail.com	247985432	Remove

Sentiments (Admin Module):

Here admin can view/add sentiments on the application which we help detecting the depression level from users chat/posts.



Motivation (Admin Module):

Here admin can add motivational posts for every level of depression and it will be sent to the user by the application.



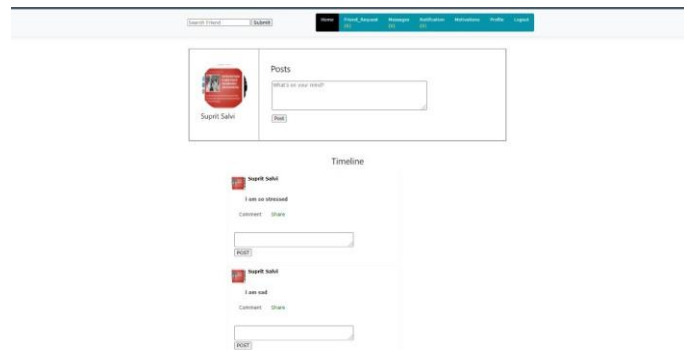
Analysis (Admin Module):

In this section, the admin can see every user's posts/chats, indicating whether the user is depressed or not. Also, there is a graphical representation also.



User's Feed (User Module):

Here users can post whatever they feel or what they are doing and the user's friend can also see their post.



Notification (User Module):

Here users can check their notification and can also see the motivational post shared by the application depending on the severity level.



VII CONCLUSION

Our proposed a system that will facilitate suspected users to avoid wasting his/her life, by knowing ahead whether or not the user is depressed and even the system can send some psychological feature posts to the user supporting the amount of depression he's. We tend to conclude that this method is terribly helpful in today's world where most folks don't have time to satisfy our friends & share their thoughts and feelings like we tend to want to have in older days thanks to busy schedules. Therefore our system plays a really very important role up here to avoid any human loss.

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