Human Social Network Addiction Detection using Social Networking

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Abstract

Our perspective, latest and modern to the apply on Social Network Human Addiction Detection, does not depend on demonstrative of those psychological elements through questionary. as a substitute, we recommend a machine learning frame, namely, Social Network Human Addiction Detection (SNHAD), with the aim of exploits characteristic take out from Social Network records to exactly recognize probable occurrence of SNHADs. The new users register on the social network like twitter and then login. The client has to posting their observation on the Social Network and be capable to keep an eye on their progression and find associated anomalies and the organization then retrieve the irregularity thing of that particular post from database which the user has posted and these posts are displayed in the anomaly list.

Keywords: Twitter text stream, blog and microblogs, emerging, anomalies.

1. INTRODUCTION

Through the volatile enlargement in attractiveness of community networking and communication apps, Online Social Networks (OSNs) contain a dimension of abundant users each day lives. Highest inspect on social web removal centre of attention on discover the understanding following the information used for humanizing users life. Though OSNs it seems that spread out their peoples' capacity in escalating community associates, they might in fact decline the confronting each other mutual connections in the real earth. Because of the plague range of such phenomena, latest requisites such as phubbing (Phone Snubbing) and Nomo phobia (no mobile phone phobia) have been formed to illustrate persons who not able to discontinue using mobile community network apps. They investigate also reveal that social network compulsion may unconstructively collision touching position, cause top opposition, sad feel, and obsessive actions. Still additional disturbing is to the interruption of before time obstruction might dangerously hurt persons' community implementation. In summary, it is admired to have the capability to aggressively notice likely SNMD clients on OSNs at an untimely phase.

2. MOTIVATION:

This System used to detect social network mental disorders person with using this system. We used anomalies tweets, login Sessions , Comments , Review , and some social media platform activities. The purpose of the system is used to detect anomalies or an abnormal event that occurs on social media like twitter by using text streams. This system is capable toward identify appearing anomaly at a previous phase compare toward the presented techniques.

3. Related work:

Using keyword co-occurrence, we evaluate interconnected occupation regarding subject recognition plus rising occasion recognition. It have lengthy acknowledged that representation of subjects otherwise actions base on KeyWord conjunction is an successful perspective. For expression collection plus KeyWord removal from documents Co-occurrence information has been used. A small content subject form that straight forms the creation of expression Co-occurrences prototype has been planned. In difference; our perspective accept a combined diagram processing outline during every stage plus meets the entire recorded morphological prerequisite. Identify the rising actions fundamentally requires recomputing collection from scratch though the effectiveness of mainly accomplishment cumulative estimation. For Twitter, this technique would produce lots of direction that merely enclose a distinct keyword, which is tough to understand.

4. LITERATURE SURVEY

In 2013 Jain.R[5] the main moto of this paper to examine the performance of unseen markov Model(HMM) and Support Vector Machine (SVM) for anomaly interruption recognition.

In 2014 Lin H.L[1] the moto of this paper cross-sectional learn were to inspect the relations of suicidal ideation plus effort with web habit plus significance performance in a huge representative taiwanese teenager inhabitants but the limatations of this paper is crosssectional research design of this study could not confirm the causal relationship between internet addiction and suicidality

In 2014 Ferrara[7] the moto of this paper is how do social interactions influence personality with combined nature? or else how does connectedness influence personality with combined relevant safety ?Yet how do trendy plus admired substance come out from those contacts? In this paper they deal with these querys by analyzing an rising sociotechnological

In 2015 K.Hayashi[9] We integrate both the interaction of meaningful subjects plus the penetrate of communication over the twitter stream.

In 2016 H Chang.C[11] the moto of this paper building predictive models that leverage language and behavioral patterns,used particularly in social media,to determine whether a user is suffering from two cases of mental disorder.

In 2016 Zhao.L[13] this paper proposes a novel feature learning model that concurrently addresses all the above challenges but the limitation of this paper is a huge computing power to train.Need to have HUGE amount of data.

In 2017 K,Kim[12] study on poor sleep quality and suicide attempt among adults due to internet addiction.

5.   **PROPOSED WORK:**

In our system there are two main modules Social User and Admin. The Social user will add post, update their profile, Add or remove friends, upload their profile picture and view profile of other users And the other module will analyze the activity of All user to find out the mental disorder personality on social media.

We construct a challenge to robotically recognize probable online users with SNHDs. We put forward an SNHAD construction that amble approximately a option of facial peripheral from in progress logs of Online Social Networks plus a latest musculus method used for deriving underlying facial exterior from numerous Online Social Networks for SNHAD unearthing. This occupation represents a mutual attempt connecting workstation scientists and psychological health care experimenter to tackle hopeful issues in SNHADs. As for the subsequently step, we understanding to learning the facial exterior extracts from multimedia stuffing by method on Natural Languages Processing plus workstation vision. We as well preparation to accompanying investigate latest issues from the position of a community network service supplier, e.g. Twitter or facebook, to improve the well-beings of Online Social Network users with no compromise the abuser selection.
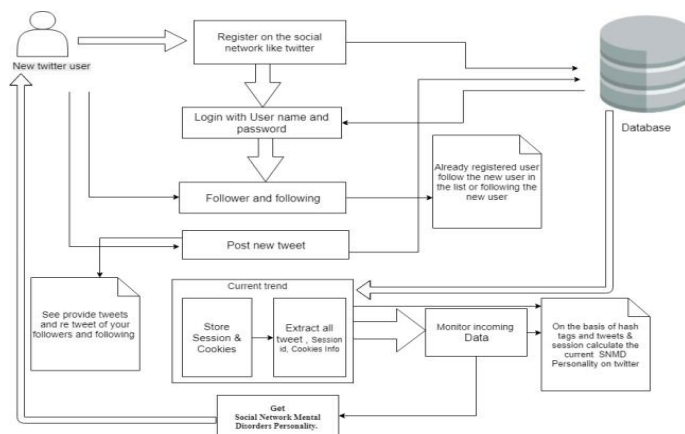
Figure: Architecture Diagram

There are two main modules in our system:

1) Social User

2) Admin

New twitter/facebook user: The new user is nothing but the who want to use the social media like twitter or facebook.

Registration on social network: The new users who want use the social media they must be register on that particular sites. Abuser will fill up the essential registration form like first name, last name, email id, password, date of birth etc. If all fields are legal then abuser will get the one time password (OTP) if some fields are not valid like email id then user will not get one time password (OTP). After successful registration users must give the physiological test. The test will be compulsory for the all the registered users. The all data stored in database.

Login: After successful registration user will login with username and password.

Follow/follower: Already registered users follow the new user in the list of following the user.

Post new tweet: the user will post the new tweet whatever he/she has in mind regarding feelings or about someone. The post may have positive attitude or negative attitude.

Current Trend:

     1) **Store cookies and session**

     2) **Extract all tweet , cookies and session**

        Store cookies and sessions: The cookies and sessions are stored. A cookie is a little portion of content stored on a abuser's workstation via their browser. Cookies plus sessions are used to accumulate information. Cookies are just stored on the patron –region device whereas sessions get stored on the user as well as server session.

        Extract all tweet , cookies and session: Extract the all tweets , cookies and sessions for the further processing.

        Monitor incoming data: Monitoring on the incoming data is the important part. We analyze the incoming data on the basis of the user's tweets are positive or negative , very positive or very negative or neutral and on the basis of the calculating the sessions and cookies , How many times user login , and on the basis of the trolling. If the all parameter are match with the threshold value the users detected as a addicted person towards social media.

        Results and ScreenShot:

        In our project we have been successfully identify the human social network addiction stages using the algorithm natural language processing and naive bayes. We take input as users tweets, calculating users sessions and cookies and how many times users are login in their account. In admin panel will display the list of addicted person with detail history of addicted person like negative tweets, tweet time ,online session , session timing , total login attempt and total login time. Considering to all parameter it will display the stage of addiction.
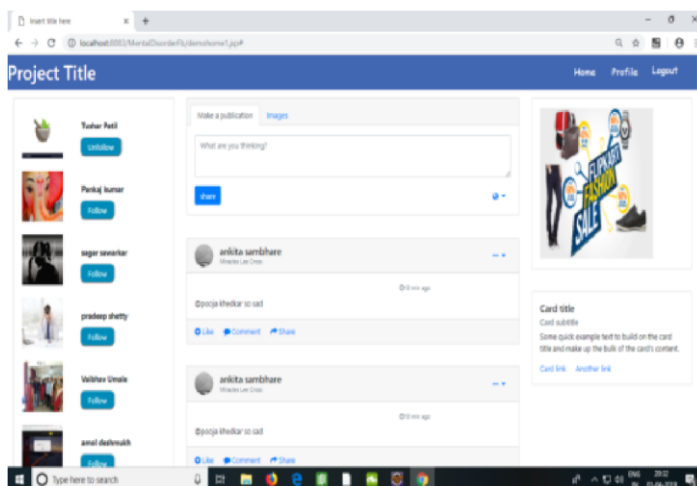
Screenshot1:Login into account

Screenshot2:List of addicated person

Screenshot3: Detailed Information

Sr. No.	User	Total Post	Negative Post	Positive Post	Stage No
1	Tushar Patil	15	5	10	2
2	Pankaj Kumar	17	2	15	1
3	Amol Deshmukh	25	1	24	1
4	Vaibhav Umale	13	10	3	3
5	Pravin Shinde	9	5	4	3

Table 1: Result

6.　　CONCLUSION:

Now a day's we are familiar with the trends of community communication such as Facebook, Twitter ,Users post their opinion. Community Communication can facilitate to progress persons intelligence of association with actual or online society and detect SNMDS.

Reference:

[1]　　I.-H. Lin, C.-H. Ko, Y.-P. Chang, T.-L. Liu, P.-W. Wang, H.-C. Lin, M.-F. Huang, Y.-C. Yeh, W.-J. Chou, and C.-F. Yen. The association between suicidality and Internet addiction and activities in Taiwanese adolescents. Compr. Psychiat., 2014.

[2]　　Y. Baek, Y. Bae, and H. Jang. Social and parasocial relationships on social network sites and their differential relationships with users' psychological well-being. Cyberpsychol. Behav. Soc. Netw., 2013.

[3]　　L. Zhao and J. Ye and F. Chen and C.-T. Lu and N. Ramakrishnan. Hierarchical Incomplete multi-source feature learning for Spatiotemporal Event Forecasting. KDD, 2016.

[4]　　E. Baumer, P. Adams, V. Khovanskaya, T. Liao, M. Smith, V. Sosik, and K. Williams. Limiting, leaving, and (re)lapsing: an exploration of Facebook non-use practices and experiences. CHI, 2013.

[5]　　R. Jain and N. Abouzakhar. A comparative study of hidden markov model and support vector machine in anomaly intrusion detection. JITST, 2013.

[6]　　K.-L. Liu, W.-J. Li, and M. Guo. Emoticon smoothed language models for twitter sentiment analysis. AAAI, 2012.

[7]　　E. Ferrara, R. Interdonato, and A. Tagarelli. Online popularity and topical interests through the lens of Instagram. HT, 2014.

[8]　　L. He, C.-T. Lu, J.Ma, J. Cao, L. Shen, and P. S. Yu. Joint community and structural hole spanner detection via harmonic modularity. KDD, 2016.

[9]　　K. Hayashi, T. Maehara, M. Toyoda, and K. Kawarabayashi. Realtime top-r topic detection on twitter with topic hijack filtering. KDD, 2015.

[10]　　J. Gill and G. King. What to do when your Hessian is not invertible: Alternatives to model respecification in nonlinear estimation. Sociological Methods and Research, 2004.

[11]　　E.Saravia , Y.-s.Chen,C.-H Change subconscious crowdsourcing a feasible data collection mechanism for mental disorder detection on social media.

[12]　　K.Kim , H.Lee, J.P.Hong , M.J.Cho.M.Fava Poor sleep quality and suicide attempt among adults with internet addiction:a nationwide community sample of korea.

[13]　　Zhao.L J.Ye N.Ramakrishnan Hierarchical Incomplete Multisource Feature Learning for Spatiotemporal Event Forcecasting.