Depression Detection Based On Title Of Video

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Abstract:

This paper explore detection of depression and provide social support to users who are suffer from depression but due to lack of support sometimes they lost their life. In India, the National Mental Health Survey 2015-16 reveals that nearly 15 percent Indian adults need active intervention for one or more mental health issues and one in 20 Indians suffers from depression. This survey motives us to work on it. It's estimated that in 2012, India had over 258,000 suicides, with the age-group of 15-49 years being most affected. As this age group spend most time with social media and share their view on it. by using this we can provide a solution to detect depression state of user and provide social support to user. To reduce the percentage of death due to depression the system will be beneficial. it will provide social support to user by automatically detecting depression. This system will use emotions of user, recognized from videos watched by the user. The title of video describes about content or category of video .With the help of weight factor we can decide whether the video is of positive or negative approach and based on analysis of user approach we will detect depression condition of user to provide support.

keywords: **Affective computing ,emotion detection ,automatic data processing data collection expressed emotion data, YouTube, big data, artificial intelligence**

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I. INTRODUCTION

In India, the national mental health survey 2015-16 reveals that nearly 15percent of Indian adults need active intervention for one or more mental health issues and one in 20 Indians suffers from depression. the 10th revision of international classification of diseases icd-10, which is the basis for diagnosing mental disorders in the czech republic, classifies depression as an affective disorder (mood disorder). The mental disorder can have three forms: mild, moderate and severe forms of depression. one of the first symptoms is a change in mood toward the negative pole: the individual feels sad, needless, and/or unimportant. Its estimated that in year 2012, India had over 258,000 suicides, with the age-group of 15-49 years being most affected. automatic techniques for understanding the emotions in diverse user generated videos on the social media are helpful for many applications. for example, governments can also utilize this function to better understand people' reactions about what events or new policies. in this paper, we present a comprehensive computational approach for predicting emotions purely based on video title analysis. while significant progress has been made on the computational inference of emotions in images (joshi et al. 2011), previous research on video emotions has mostly been conducted on movie data (wang and cheong 2006). to the best of our knowledge, there is no existing work investigating

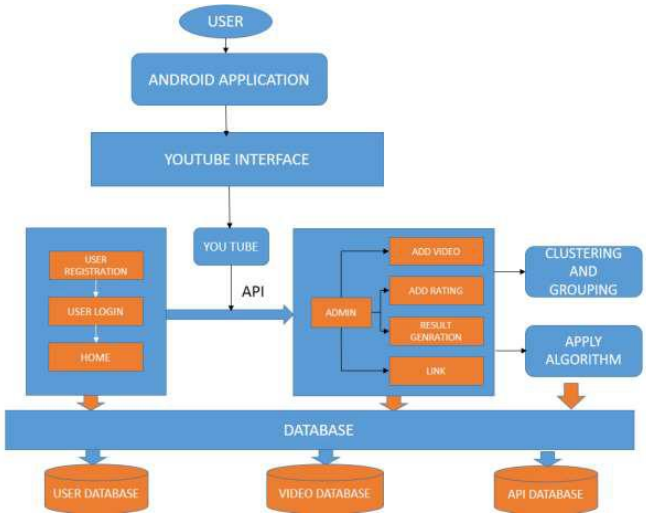
this problem on user-generated videos, which have more diversified contents with little quality control and post-editing. one important issue that has limited the needed potentially helpful clues for emotion recognition on this dataset, which are important for the design of a good computational model. We compute and evaluate a large set of attribute features, and introduce the use of semantic attributes for emotion prediction. The several valuable insights are attained from extensive evaluations, which set the foundation for future research of this challenging problem. And notice that the emotions contains by a video is not necessarily the same with the emotion of a particular person after viewing the video, therefore it is challenging but possible to develop computational models to predict it.

II. LITERATURE SURVEY

The Depression also has an effect on language used by the peoples and that many depressed individuals can use social media platforms general to get the information or for discuss their problems. Study addresses the early detection of depression using machine learning models based on messages on a social platform. In general, a convolutional neural network based on the different words embeddings is evaluated and compared to a the classification based on the user-level linguistic metadata. The Young adults live with the various mental illnesses are currently use the social networking sites and they express their high interest in a social networking site specifically tailored to their population with specific tools designed to decrease the social isolation and help them to live more independently. developing the good audios and videos features, to build reliable depression detection systems, text-based content features are also of importance to analyse depression-related textual indicators The new text and video features and hybridizes deep and the shallow models for the depression estimation and classification from audio, video and text descriptors. The proposed hybrid framework is consists of the three main parts: A Deep Convolutional Neural Network (DCNN) and Deep Neural Network (DNN)based audio-visual multi-modal depression recognition model for estimating the Patient Health Questionnaire depression scale (PHQ-8);A Paragraph Vector (PV) and Support Vector Machine (SVM) based model for inferring the physical and mental conditions of the individual from the transcripts of the interview.

IV.METHODOLOGY

Our proposed system for detection of depression and provide social support is developed for the users who are suffer from depression but due to lack of support sometimes they lost their life. In proposed system we provide a social platform which help user to expelled out from it. In our proposed system we use social media platform like YouTube to detection of depression as we know that mobile users are more connected with social media with the help of thing we used in our project. In existing system depression is detected by various ways such as from facial expressions, visual-audio features etc. Through proposed system it detects mental condition or mood of the user during use of social media such as YouTube. We would be getting YouTube videos via YouTube Official API and then we manually would assign a Depression Factor to that video. Depression Factor of Video and official video link would be saved in our database. User would login through Android application and set his depression Rate with the help of slider with value between 1 to 10.Then based on his selected depression Rate. videos would be populated. Along with this user would be suggested two videos one which would be positive and other that would be negative. Than based on the next selected video we would be determining the depression rate of that user. and thus we would carry out Further operation of calling his close people and so on.



The Architectural design is a concept that focuses on the components or elements of the structure. An architect is generally the in charge of the architectural designs. They work with space and the elements to create a coherent and the functional structure. From this observe mentioned architecture user can register with our application, we can save You Tube videos link in database, with the help of clustering and grouping algorithm we can add rating on that video. With the help of weight factor we decide whether video is positive or negative . A you tube interface is an entity to help to store video link data on social media sites to save in a database. The interfacing is done via YouTube API The Login and Registration form is basic form for register new users and login form used for providing login details to user for open main form or Application .The admin can add new video data in application with the help of API. You Tube can gives 80,000 point for all user to share their video .Admin have authority like add/update/delete video. There is various type of video present in social networking, we have to add rating on it to find the video is positive or negative. With the help of rating we can have clustered all watch video and calculate the mean value to find depression level. The result generation is a task to shows the user is in depression or not, when we apply K- means algorithm to the watch video by user that time result will be generated and that result shows on dashboard to the user on Android application. In database we can save all video link present on You Tube, as well as user registration login details save in database. We can save history data in database and use clustering techniques on it to manipulate the rating data.

V.CONCLUSIONS

We have presented a comprehensive computational framework for depression detection from video emotion based on video title. As per survey conducted by WHO, In India, the National Mental Health Survey 2015-16 reveals that nearly 15 percent Indian adults need active intervention for one or more mental health issues and one in 20 Indians 45 suffers from depression. through this proposed system we will detect depression from user social media use ,The system gather information from social media use and processing on it collectively and identify the emotions behind social active content, through the emotions obtained from processing we can easily detect the mood of user as user is happy ,or user is in depression. By providing social support to user depression. The features are also highly complementary—combining attributes with the title features shows very promising results.

VI. REFERENCES

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