**BullyNet: Unmasking Cyberbullies on Social Networks**

**ABSTRACT:**

One of the most harmful consequences of social media is the rise of cyberbullying, which tends to be more sinister than traditional bullying, given that online records typically live on the Internet for quite a long time and are hard to control. In this article, we present a system called BullyNet, for detecting cyberbullies on Twitter social network. We exploit bullying tendencies by proposing a robust method for constructing a cyberbullying signed network (SN). We analyze tweets to determine their relation to cyberbullying while considering the context in which the tweets exist in order to optimize their bullying score. We also propose a centrality measure to detect cyberbullies from a cyberbullying SN and show that it outperforms other existing measures. We experiment on a data set of localhost tweets, and our results show that the proposed approach can detect cyberbullies with high accuracy while being scalable with respect to the number of tweets.

**EXISTING SYSTEM:**

* Xu et al. used textual information to identify emotions in bullying traces, as opposed to determining whether or not a message was bullying.
* Singh et al. proposed a probabilistic socio-textual information fusion for cyberbullying detection. This fusion uses social network features derived from a 1.5 ego network and textual features, such as density of bad words and part-of-speech-tags.
* Cheng et al. proposed a novel method in identifying cyberbullies within a multimodal context. To understand cyberbullying, Kao et al. proposed a framework by studying social role detection. By using words and comments, temporal characteristics, and social information of a session as well as peer influence

**DISADVANTAGES OF EXISTING SYSTEM:**

* Although strict laws exist to punish cyberbullying, there are very less tools available to effectively combat cyberbullying. Social media platforms provide users with the option to self-report abusive behavior and content in addition to providing tools to deal with bullying.
* Mining social media networks to determine cyberbullies imposes several challenges and concerns.
* Most of the existing system techniques are more manual process that relies on human intervention and decision making
* The existing system manually classified them and then differentiate them to simple Naïve classification that uses sentiment analysis as a feature, their results were poor when compared to the manually classified Results.

**PROPOSED SYSTEM:**

* The objective of our solution is to identify the bullies from raw Twitter data based on the context as well as the contents in which the tweets exist. The aim of the present work is therefore to propose and experimentally evaluate an automated system, called BullyNet, which can able to filter unwanted messages from OSN user walls. We exploit text categorization techniques to automatically predict the bullying messages even with each short text message a set of categories based on its content.
* This project will reduce the drawback in the existing system, new software is developed in a user-friendly manner to satisfy and overcome the drawback. The defamation technique monitors every single post happens in this social media and every word will be administered by the automated system. Natural language processing technique combined with keyword matching algorithm ensures identifying defamed profiles and odd out and list them to admin user. In addition the admin has also have the option of blocking the user who makes cyberbulling.

**ADVANTAGES OF PROPOSED SYSTEM:**

* The proposed system shows us a Good accuracy which is better than existing systems. Our model will help people from the attacks of social media bullies.
* The proposed system instead of simply looking for patterns, and finding the bullies, it also has the option of block the bullies.
* The proposed system results will be more precise as compared to existing system.

**SYSTEM ARCHITECTURE:**

File Details

ADMIN

Manage user

View user details

View tweets from Twitter

Analyze Bullying tweets and Block User

client

File upload

File Details

File View

File Download

TWITTER

USER

Register

Login

View TimeLine

View Profile

Send and view Message

**SYSTEM REQUIREMENTS:**

**HARDWARE REQUIREMENTS:**

* System : Pentium i3 Processor
* Hard Disk : 500 GB.
* Monitor : 15’’ LED
* Input Devices : Keyboard, Mouse
* Ram : 4 GB

**SOFTWARE REQUIREMENTS:**

* Operating system : Windows 10.
* Coding Language : Java.
* Tool : Netbeans 8.2
* Database : MYSQL

**REFERENCE:**

Aparna Sankaran Srinath , Hannah Johnson, Gaby G. Dagher , and Min Long, “BullyNet: Unmasking Cyberbullies on Social Networks”, IEEE TRANSACTIONS ON COMPUTATIONAL SOCIAL SYSTEMS, VOL. 8, NO. 2, APRIL 2021.