



Prevention Efforts of Child Sexual Predator Harassers in Online Social Media

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ABSTRACT: Professional psychologists need to understand the dangers of online sexual harassment and how to protect young people from sex predators using the internet. Although the net has several positive aspects, one in all the foremost pernicious aspects is its potential use for on-line sexual postulation. The internet shows a medium that allows sex predators to enter numerous children in a relatively anonymous environment. Online predators try to gradually seduce their targets through attention, affection, kindness, and even gifts, and often devote considerable time, money and energy to this effort. They are aware of the latest music and hobbies likely to interest kids. They listen to and sympathize with kids' problems. They also try to ease young people's inhibitions by gradually introducing sexual content into their conversations or by showing them sexually explicit material.

KEYWORDS: Introduction, Related work, User module, Admin module, Implementation.

1. INTRODUCTION

Child predator detection system on social media is a web based application. This paper aims to detect child predator comments and post on social media like facebook, instagram etc and send report to cyber cell admin. To develop an well-designed database to store all comments and post of social online contact of children in podophiles is a rapidly growing problem on social media. As of march 2014, the national society for the hindrance of cruelty to kids (nspcc), reported that i) 12-tone system of 11-16 year olds within the kingdom have received unwanted sexual messages; and ii) 8% of 11-16 year olds in the uk have received requests to send or respond to a sexual message. The detection of kids cybersexual-offenders is so a crucial issue that must be addressed. Kids in their teens have began to use social media as their main means that

of communication. Moreover, a recent study of cognition, adolescents and mobile phones (scamp) has revealed that 70% of 11-12 year olds in the uk now own a mobile phone rising to 90% by age 14.

1.1 OBJECTIVE

The Purpose of paper is to detect child predator base on comments and post of social media account and send predator record to cyber cell admin. paper is motivated from this classification and particularly Controlling harassment type of cyberbullying, where the bully sends offensive messages to the victim.

1.2 MOTIVATION

Need to use more innovation technique to ameliorate patient flow and prevent Overflowing. Data mining techniques will show us a pleasant method to predict the ED(Emergency Department) Admissions. Developing machine learning techniques to predict ED(Emergency Department) admissions. Professional psychologists need to understand the dangers of online sexual harassment and how to protect young people from sex predators using the internet.

1.3. EXISTING WORK

There exists various child predator detection system which are used in gaming, audio chat and in various online entertainment platform. While playing games or for using online audio chat there exists a child predator system which detects an online sexual harassment and prevent child from getting abused or getting harassed by sexual predator as this existing system is only used when the children are playing games on internet or doing any audio chats.



LIMITATIONS OF EXISTING WORK

- There are no automatic Methods for Detection of Child Predators Cyber Harassers on Social Media.
- Social Networks Users should Block them manually.
- There is no controlling of Message, Conversation and Author based activities in Social Networks.

1.4 PROPOSED WORK

In this paper we are using various machine learning algorithms such as SVM, Random Forest, Naïve Bayes, KNearest Neighbours, and Decision Tree to predict child harasser's posts from social networks. Using all algorithms we will build train model with normal and harasser's word and messages and this train model will applied on new posts from users to predict whether new post is normal or contain harasser's stuff.

CONTRIBUTIONAL WORK

- ML Techniques Automatically blocks Cyber Harassment Users.
- Provides various controlling of following ones.
 1. Message-Based Detection and Blocking.
 2. Author-Based Detection and Blocking.
 3. Conversation-Based Detection and Blocking.

2. SOFTWARE REQUIREMENT ANALYSIS AND SPECIFICATIONS

2.1 RELATED WORK

Muhamad Ali, Partick Bours. "Ensemble technique for sexual predator identification". They study a good technique for sexual predator identification.

Cyber grooming may be a compelling drawback worldwide today and plenty of reports powerfully instructed that it becomes terribly imperative to tackle this drawback to safeguard the kids from sexual exploitation.

2.2 MODULES

User module

The user module allows users to register, log in, and log out. Users benefit from being able to

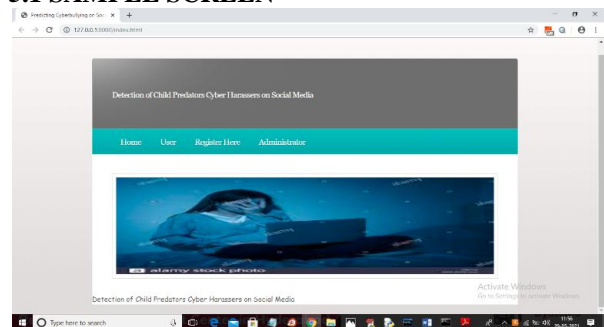
sign on because this associates content they create with their account and allows various permissions to be set for their roles. The user module supports user roles, which can be set up with fine-grained permissions allowing each role to do only what the administrator permits. Each user is assigned one or more roles. By default there are three roles: *anonymous* (a user who has not logged in) and *authenticated* (a user who is registered), and *administrator* (a signed in user who will be assigned site administrator permissions)

Admin Module

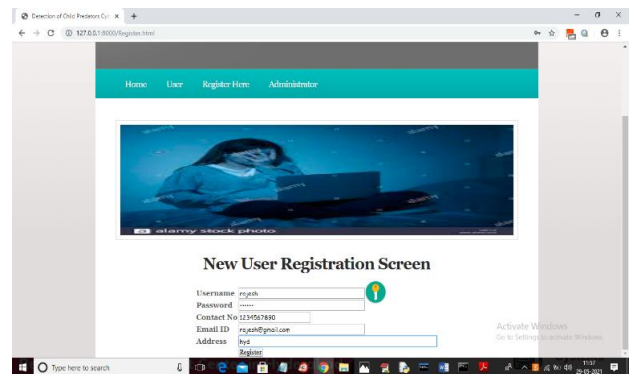
Admin can view all registered user account and then accept or reject new user account. Admin responsible to add new harasser/non-harasser messages to machine learning train dataset. Admin has to run all or at-least one SVM algorithm to perform harasser's message detection from user side. Admin can view or monitor all posts send by all users.

5. IMPLEMENTATION

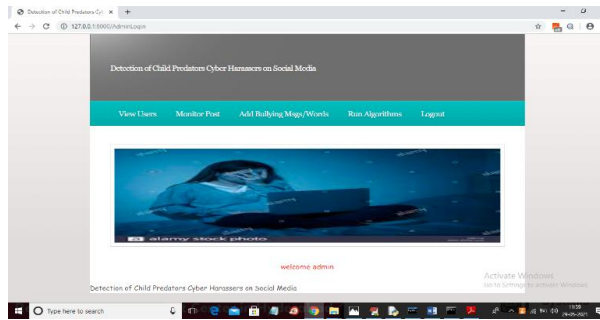
5.1 SAMPLE SCREEN



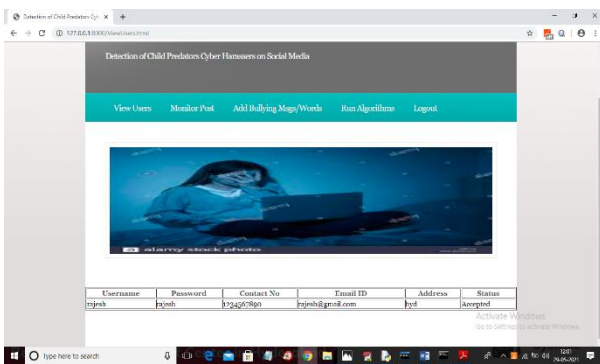
Screen 5.1: In above screen click on 'Register Here' link and add new user to create account.



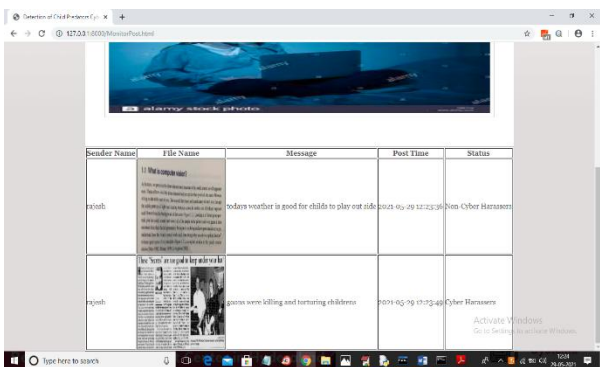
Screen 5.2: In above screen now click on 'Register' button to add details.



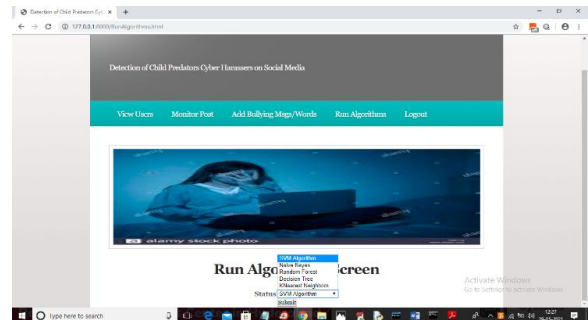
Screen 5.3: Now admin can click on 'View Users' link to view all users list.



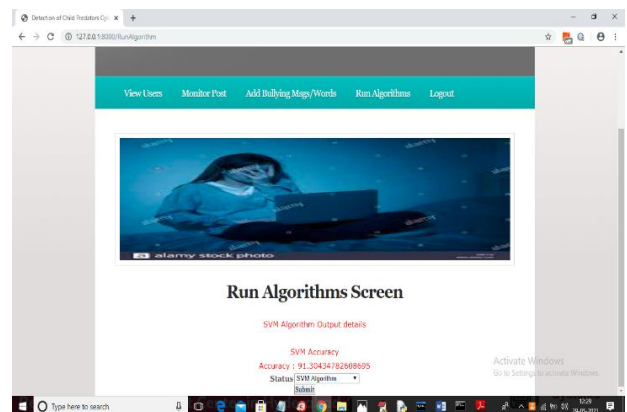
Screen 5.4: In above screen we can see 'rajesh' account created. Now admin can click on 'Monitor Post' to view all post from past users



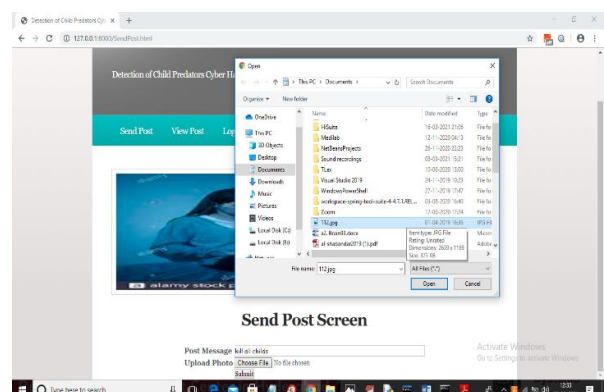
Screen 5.5: In above screen application will automatically detect whether message is non-cyber harasser's or harassers from machine learning algorithms. Now admin can click on 'Add Bullying Msgs/words' link to add words.



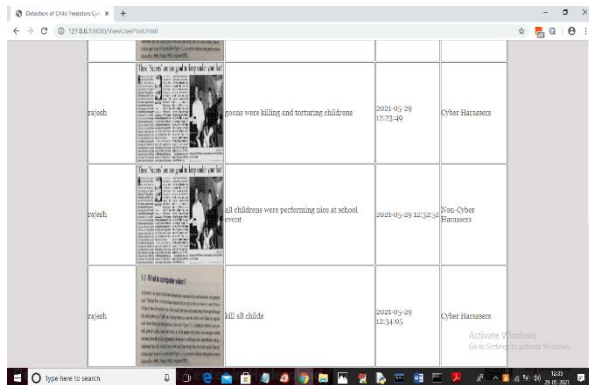
Screen 5.6: In above screen admin has to select each algorithm and click on 'Submit' button to train model and we will get accuracy also for each algorithm. Admin has to repeat this step whenever first time he starts the server or upon adding new bullying messages.



Screen 5.7: In above screen I ran SVM and got accuracy as 91. Similarly you need to select all algorithms one by one and run it.



Screen 5.8: In above screen added another message and now click on 'View Post' link to get all posts sent by users.



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Screen 5.9: In above screen we are seeing posts from all users and we can see with the help of machine learning SVM algorithms we are automatically able predict message as cyber or non-cyber harasser's. Similarly, you can sign up new users and then post new messages.

CONCLUSION

The cost to youngsters and society of sexual commission is simply too nice to overlook the hazards of on-line solicitation. The aim of the groomer is to build a relationship with a child in order to gain access to that child. When grooming takes place it is common that an adult groomer is pretending to be a child with common hobbies or interests to build a relationship that includes trust with the child. In this paper, we detect predator of child for child safety. And send report to cyber admin for action in future it work may use cloud storage devices to monitor cyber-crimes.

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