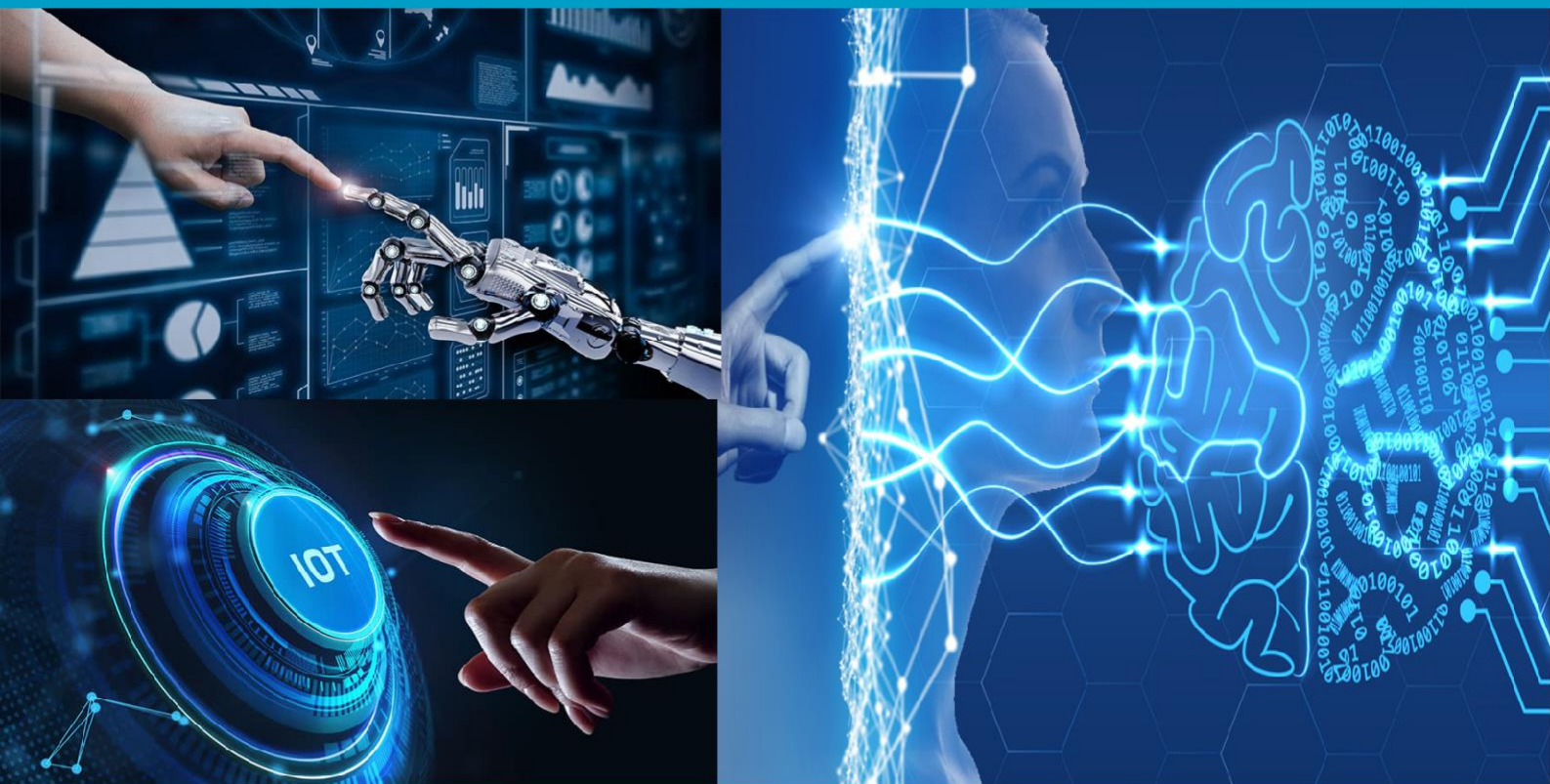




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Android Based Abusive Chat Detection

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ABSTRACT: With the increased use of instant messengers to share information, there has been an increase in suspicious activity. There are many sources for sharing information, but instant messengers and social networking sites are a quick way to share anything. Sometimes, even news stories are initially posted on social media sites and then released on instant messengers rather than news channels and newspapers etc. Due to these technological advancements, some people misuse these instant messengers to share suspicious activities and make plans to do something suspicious. This type of chat is mainly available in text format. With advances in internet technology and changes in communication methods, people have discovered that a lot of first-hand news has been discussed on internet forums before mainstream media reports. This distribution channel also provides an effective channel for illegal activities such as streaming copyrighted movies, threatening messages, and online gambling. Our proposed system will analyze online plain text sources from selected discussion forums and classify the texts into different groups, and the system will decide which message is legitimate and which is not.

I. INTRODUCTION

In our system, users can chat and watch. The user can send messages with any user he wants. He can only send and receive messages from other users. During a conversation, if there are illegal words, the algorithm can catch the same words and convert the abusive words into regular words. Database for analysis all chat history will be stored in a single file and the same data will be stored in the database for storage.

Various models have been applied to this system to detect the purpose of malicious speech. This system focuses on collecting, monitoring and storing suspicious messages and information appearing in the conversation to check for suspicious messages. Our document explains digital media (storage), forensic techniques and tools in cybercrime. This method offers a new method using word conversion techniques. The proposed system is designed to find suspicious messages appearing in the conversation and replace these messages with regularly used and healthy messages stored in our Hadoop database and receive messages as regular text.

II. LITERATURE REVIEW

In Paper - A Two-Step Method for Detecting User Conflicts in Discussion Rob Kavet and Gabor Kenzo, "A Perspective on Discussion with Interactive Technology", IEEE 2010. This document is based on INAOE's Language Technologies Lab and UAM's Language and PAN 2012' in the Reasoning Group for the Sexual Predator Detection Task. The proposed process focuses on the problem of identifying sexual predators in a group of questionable conversations in document

Analysis and detection of sexual predators. David W. Cheung et al. "Control to discover corporate rules in big data: an updated approach", IEEE 1996 publication. In system administrator and user roles, administrators can view and monitor



live chat. The user can chat with other users that he cannot follow. He can only send and receive messages from other users. If there are confusing words while speaking, the algorithm can detect the same words and convert the confused words into normal words.

In IEEE 2012 article - Active Chat Monitoring and Suspect Detection over the Internet Shakil Ahmed, Frans Coenen and Paul Leng "Tree-Based Partitioning of Data for Association Rule Mining". Active Chat Monitoring System will solve this problem. It uses data mining algorithms to detect legal and illegal crimes. In this system, text data mining technology will be used. The forum will help us identify and distribute free online texts from selected forums and the system will determine which messages are correct.

We have created a system called Active Chat Monitoring and Suspicious Chat Detection on the Internet to solve these problems in Active Chat Monitoring and Suspicious Chat Detection on the Internet. There are more and more internet technologies. A supervised study session will solve this problem.

A critical assessment of the work has been done so far on Cloud Forensics to show how the current study related to what

No.	Paper Title	Author Name	Key Points	Remark
1	ATwo-step Approach for Effective Detection of Misbehaving Users in Chats	Deevi Radha Rani, G. Geethakumari, 2015	This paper describes the system jointly developed by the Language Technologies Lab from INAOE and the Language and Reasoning Group from UAM for the Sexual Predators Identification task at the PAN 2012. The presented system focuses on the problem of identifying sexual predators in a set of suspicious chatting [1].	Users have to use provided chat application.
2	Analysis and Detection of Suspicious Chats in Terrorism Using Word Substitution	BKSP Kumar Raju Alluri, Geethakumari G, 2015	In our system admin and user roles, Admin is able to view the live chat and monitor the same. User can chat with any other user which he cannot monitor. He is only able to send and receive the messages to and from the other user[2].	Process can be time consuming Soo the time complexity for searching is more
3	Active Chat Monitoring and Suspicious Detection over Internet	Hubert Ritzdorf Nikolaos KarapanosSrdjanCapkun, 2014	This system we have produced called as Active Chat Monitoring & Suspicious Chat Detection over Internet which will tackle with these issues. Internet technology had been increasing more . Active Chat Monitoring System which will tackle with this problem[3].	- Keeps an Eye on any suspicious activities - Main Advantage of this System is that users will not know that they are being checked.

In summary, the work presented in this paper is built on previous research to explore how monitoring and chat analysis is done.



III.METHODOLOGY OF PROPOSED SURVEY

The proposed System will analyse online plain text sources from selected discussion forums and will classify the text into different groups and system will decide which post is legal and illegal. This system will ensure that the admin may not watch all the chat at a time, so in order to stop chatting illegally, the keywords are set by the admin as suspicious words which will be blocked or it cannot be able to view by the other person. The system to be developed here is a chat facility. It is a client-server system with centralized database server. There is two way communications between the client and the server. This chat application can be used for group discussion. It allows the user to send feedback to the admin.

This module has two submodules

- a. User Registration Module
- b. User login module.

User Registration: User Module allows users to register name, email, phone number, password, etc. allows them to register to the application by entering their information. When user tries to login after saving password, these details will be stored in firebase and phone number registered in database will be called to login page so user can login directly without entering phone number twice. Users do not need to enter their passwords and phone numbers twice to log into their account.

User login: This is the second screen of module 1, on this screen the user will use the login application after entering two details about phone registration and password. The chat application has a login button that will open it.

2.2Module 2:

Screen:In this module user will be able to create multiple communities. Each community consist of number of members which will be selected by user who is making the community. This screen consist of image icon through which user will select any image from its gallery for its group identification. User will be allowed to enter his /her name through which he/she will be recognize in the community.

Screen:2In this module a list of all the communities that are created by the user will be shown on the screen. User will be able to select any one community among all communities. After selecting all the message will be shared with all the users who belongs to that community.With the help of this there will be no need to send message everyone separately when one wants to share a message with multiple users.

2.3. Module 3: User List

The Third module is the list of the users who are using the application. We have differentiated it into two parts i.e., Community and personal. The Module show how many users are there and we can easily chat with the desired user. The details of the users like name, password, e-mail is saved in firebase. If we want to talk with the user 1 then we just have to click on that (user 1) and the chat screen will appear and we can also talk in community which is nothing but groups

2.4. Module 4: Chatting Interface

After clicking on the user1 the chat screen will appear on the screen. In the chat screen the conversation will begin. If the user sends some message which contain abusive words, then the pop-up will appear of warning, that message will not send from the user side. If the user has typed a paragraph and there's only one word because of which the message is not being send then the user can copy the whole text and remove that word. If the message is free from bad words, then the chat will not interrupt

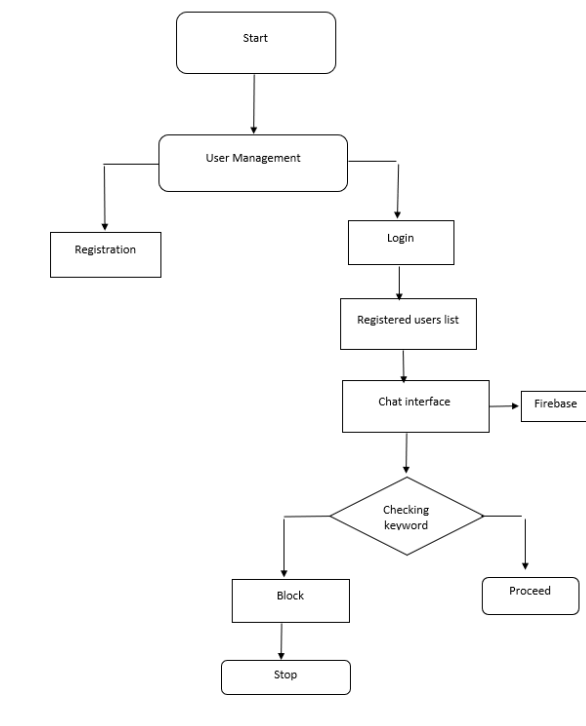


Fig: Proposed system diagram

IV.CONCLUSION AND FUTURE WORK

Active chat monitoring and suspicious chat detection over internet we conclude that using a chat for inappropriate conversation provide a secure access over internet without any further monitoring process. This could be further developed into two user communication with the help of server control. Overall process of Active chat monitoring and suspicious chat detection over internet is done the process helps the people. This can be assured from the above analysis and works. If the given future enhancements are implemented in a correct manner, then it can be extending the success of this project in the future.

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