

Identify the Potential Breaking News based on Social Media Chatter

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Abstract— Generally the social media is trending in our daily life form day and to dust, we need the help of technology information communication, most of the work depend on the web application, so here creating web application to design the intelligent process to fetch the authentication social media breaking news in anytime, anywhere, anyone can access internet at low cost, so here gaining valuable breaking news from the society, the information which is gain from the internet its very useful for the current society. This project provides an effective approach for the freelance journalist to report news into the online application and later it will be verified by the authorized professional people to approve and then it will be posted on to the serve.

Key words: K-Nearest Neighbored (KNN), Advanced Encryption Standard (AES), Decryption, Encryption, Credibility, Authenticity

I. INTRODUCTION

Basically we have portal for the news, the news is telecasted all the time by the media people, different news are telecasted by the different media people. Some time they telecasted a fake news without any authenticity, they can't concentrated on the local area, small villages problem ,most of the time media peoples can't cover all the news form all place , some time they can't telecasted the live news, it will take the long procedure to telecasted, because they have to edit and they do manually verify from others it will take a lot of time to portal the news .the people who are all waiting for the emergency news form the media people until telecasted they should wait. If there is a nearest city it will easy to cover the news but when it is not possible it will take the time to telecast on the present time.

In[1], most up-to-date data finding and tracking breaking news form some social media, then that news which manually curated are available but here the authentication users will be keep tracking the current breaking news various sources.

In [2], they examine the role of Australia's single news agency, in Australian associated press app] ,in Australian news media land space, here the people only uploaded the different news and they gathered by using particular technologies to identify a potential breaking news.

II. LITERATURE SURVEY

Basically the users who are all credibility, authenticity in this social media, they boomed the news before that admin will check the users whether credibility and authenticity then admin will decided they are eligible or not based on sending the breaking news. There are lots of related works in breaking news process like,

In [3], this shows the impact of information technology on management in small and medium industries in this work but here not only industry even, they telecasted the sports, political, marketing news etc. They published what are all the impact in the society.

In[4], specifically they design for multi-radio, multi-channel[MPMC] system to learning automata based channel for wireless mash network [WMN] but here users are using networks based on longitude and latitude to find news.

In[5] routing mechanism of mobile ad hoc network [MANet] for improving the security features, means they used message authentication method, here when they uploaded the news they can't change or edited by others it will reach from source to destination from the server.

The table 1 shows the peoples estimation are interested in different topics and different news, but the reality is most of the peoples are depend on different social media but sometime that news are not credibility and these tattle can be notice through these work by systematic verifying the potential breaking news based on social media chatter .

In[6]here organized for enhance business operation and employees communications by their own inter- office social media plat forms for the job but here this social media is providing a potential breaking news likes education, sports ,job requirements, marketing etc.

In[7] only journalist interest is highlighted to identify information from the different streams, but here the various news are gather from various source then both journalist and people interest are consider by giving authenticity.

In[8] here concentrated on informal organization which increasing the significance in our daily life like Facebook, twitter etc. they shared the existing news to the other social media, but here the various authenticity news are uploaded by the users to the society.

In[9] specific uses of educational leadership preparation for advance future school and skills related to public speaking and participation of televised news interviews here not only for the leadership and the skill, those who are all interested to gain the knowledge it will be provided in the low cost of internet to gain the several breaking news to the current society.

NEWS	TYPE OF NEWS	PERCEN-TAGE
ACCIDENTS	2015	16.75%
	2016	16.21%
	2017	16.06%
	2018	16.60%
Violent Crime	Murder	1.3%
	legacy definition	7.5%
	Robbery	27.35
	Aggravated assault	63.8%
Film	Horror	17%
	Romantic	16%
	Comedy	27%
	Thriller	14%
	Action	11%
	Adventure	10%

	Other sci-fi	5%
Sports	All types of sports	70 to 75 %
Finances	Debt	8%
	Insurance	9%
	Retirement	10%
	Other saving	10%
	Taxes	15%
	Daily spending	20%
Political	Housing	28%
	Democrat	52.27%
	I don't care	9.0%
	Other party	11.36%
Education	Republican	27.27%
	Primary school	1%
	High school	41%
	Some college	28%
	College graduates	4%

Table 1: News Estimation of Various News Category

III. PROPOSED METHODOLOGY

Previously mention in the introduction , there are many disadvantages are exists and these disadvantage can be overcome by applying various methods to verify the breaking news, so here human effort is less to complete a task in less time consumption. It will useful for emergency news for society peoples, the various method is used for news generation social media,

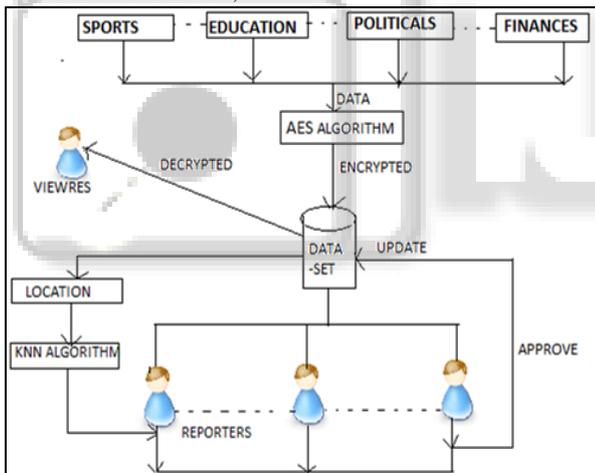


Fig. 1: Proposed Methodology

As shown in the figure 1 the reporter register to the web application and that person will upload a news but it will move for admin. The admin will check whether reporter is credibility or not and admin check whether it is fake news or not. That news is verify in the systematic way, this web application is design an intelligent process, and manage the acceptance or rejection of news uploaded by the Reporters in the application. The Reporter will enter the basic information like his name, email, phone etc. the news will be published after approval. The reporter can update the news uploaded by the reporters in the application. , the Viewer will be viewing the published news based on the category specified. The news will be notified based on the category specified Here two algorithm are used, KNN algorithm and AES algorithm.

A. AES (Advanced Encryption Standard)

It is known as substitution-permutations network. It operates 4*4 column-major order matrixes in bytes. Here use 128 bit key and to convert plain text into cypher text. Original plain text can be obtained by applying reverse round in cypher text

B. KNN (K-Nearest Neighbour)

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1) Euclidean

$$d(x, y) = \sqrt{\sum_{i=1}^m (x_i - y_i)^2}$$

Manhattan/City-block:

$$d(x, y) = \sum_{i=1}^m |x_i - y_i|$$

2) Distance Function

KNN is a k nearest neighbored algorithm is a very simple. It works based on minimum distance from source to destination. Here it will shows the nearest reporter to the admin. AES is Advanced Encryption Standard is used for data security and the algorithm described by AES is symmetric-key algorithm, here key is used both encrypting and decrypting the data. The news are verify based on this algorithm then the admin will approve the news and boomed to the users. It is a easy task and less human efforts to complete a task.

IV. RESULT & DISCUSSION

To prove the concept. This web application is written in visual studio with extra additional framework. Here to store the data MySQL database is used, in frontend design html, CSS, sqlserver are used.

To evaluate AES algorithm is used AES is 128 bits of plaintext block as 16 bytes and having four columns and rows for processing to finish the work with encryption and decryption also done by itself, approving news and verifying the breaking news is a challenge task by dong manually.

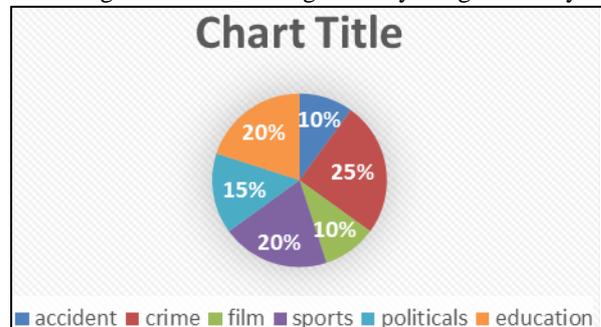


Figure 2. Survey Represent News Categories

The fig is done for various news and it's done by verifying their breaking news, in other words it can be said that its outcome of the work.

Even for the security purpose here using encryption and decryption so that the verification can done accurately anytime and anywhere by the verifier.

Snapshot



V. CONCLUSION

The proposed work about “identify potential breaking news based on social media chatter” this system takes a lots of effort and the web application gave a satisfaction to all of us. It will reduce the human efforts and to identify the tattle. The society will get the benefit from the social media. Generally the media people should follow the manual procedure to verify the news, instead of these the web application will take the verification of the news and the people can access this website by internet at low cost. The news are verified on time will be done by fast to avoid the tattle. Generally these project will help to identify the gossip through these social media, when the news are uploaded to verification. Then it is boomed to the society.

VI. FUTURE ENHANCEMENT

The algorithm need further long-term tests to improve the result. And to find the news with the help of further algorithm.

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