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Security women through analysis of twitter messages

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Abstract
Ladies and young ladies have been encountering a ton of brutality and badgering in broad daylight places in different urban areas beginning from following and prompting inappropriate behavior or rape. This examination paper essentially centers around the job of online networking in advancing the wellbeing of ladies in Indian urban communities with unique reference to the job of web-based life sites and applications including the Twitter stage Facebook and Instagram. This paper likewise centers around how an awareness of other's expectations on some portion of Indian culture can be built up the normal Indian individuals with the goal that we should concentrate on the security of ladies encompassing them. Tweets on Twitter which as a rule contain pictures and text and furthermore composed messages and statements which center on the wellbeing of ladies in Indian urban communities can be utilized to peruse a message among the Indian Youth Culture and instruct individuals to make exacting move and rebuff the individuals who irritate the ladies. Twitter and other Twitter handles which incorporate hashtag messages that are generally spread over the entire globe sir as a stage for ladies to communicate their perspectives about how they feel while we go out for work or travel out in the open vehicle and what is the condition of their psyche when they are encircled by obscure men and whether these ladies have a sense of security.

Keywords: Women, safety, sexual harassment, hash tag, sentimental analysis

Introduction
There are particular kinds of badgering and viciousness that are forceful including gazing and passing remarks and these unsuitable practices are generally observed as an ordinary piece of the urban life [1]. There have been a few examinations that have been led in urban communities across India and ladies report comparable kinds of inappropriate behavior and going off remarks by other obscure individuals. The investigation that was led across most mainstream Metropolitan urban areas of India including Delhi, Mumbai, and Pune, it was indicated that 60% of the ladies feel risky while going out to work or while going out in the open vehicle [2]. Ladies reserve the option to the city which implies that they can go openly at whatever point they need whether it be to an Educational Institute or some other spot ladies need to go. In any case, ladies feel that they are dangerous in places like shopping centers, shopping centers on their way to their activity area in light of the few obscure Eyes body disgracing and hassling these ladies Safety or absence of solid results in the life of ladies is the primary explanation of badgering of young ladies [3]. There are occurrences when the provocation of young ladies was finished by their neighbors while they were headed to class or there was an absence of wellbeing that made a feeling of dread in the psyches of little young ladies who all through their lifetime endure because of that one occasion that occurred in their lives where they had to accomplish something unsatisfactory or was explicitly irritated by one of their own neighbor or some other obscure individual.

Related Work
At the point when we consider these frameworks were beforehand they used to discover the records physically which prompts squander they no quick reaction for the situation and they have to look through each and everything was as in the past framework [5] they don't have the mindfulness about the innovation because of that numerous ladies lost their life significant life so to lessen the wrongdoing against the ladies we are executing an alternate framework.

Proposed System
At the point when we consider now because of the quick change in the general public.

Individuals have more familiarity with such sorts of wrongdoings. Presently they have to keep up the records physically everything can be kept up and we can discover the criminal effectively by utilizing these we can discover his enter subtleties of him and we can rebuff him. Furthermore, we can likewise locate past records.

Algorithm

Here in machine learning it uses step wise processing technique to make operations on the uploaded data set:

Step 1: Starting with downloading the sentimental dictionary

Step 2: Then download the twitter testing data sets and add them as an input to the program.

Step 3: Clean tweets by removing the stop words and noise like repetitive letters.

Step 4: Tokenize each word and allot strength to the words in the dataset and feed it to the program.

Step 5: For each word, compare it with positive sentiments and negative sentiments word dictionary and then increment positive count or negative count of the overall phrase.

Step 6: Finally, based on the positive count & negative count, we can get result percentage about sentiment to decide the polarity which is categorized in Positive, Negative and Neutral.

Below is the algorithm structure of how the procedure is done.

Algorithm 1 Extract Twitter sentiment

```
procedure TWITTER-CONNECTION()
    consumer − key =' xxxxxxxx'
    consumer − secret =' xxxxxxx'
    access − token =' xxxxxxx'
    access − token − secret =' xxxxxxxxx'
    self.auth = OAuthHandler(consumer − key, consumer −
    self.auth.set − access − token(access − token, access − to
    self.api = tweepy.API(self.auth)
end procedure

procedure TWEET-CLEANING(t)
    tweet = t.remove − Stop − words
    Return tweet
end procedure

procedure TWEET-CLASSIFICATION(t)
    t = Tweet − Cleaning(t)
    tweet − polarity = t.sentiment.polarity
    tweet − polarity
end procedure

procedure GET-TWEETS(q, count)
    fetched − tweets = self.api.search(q = query, count = co
    Return fetched − tweets
end procedure
```

Fig 1: Sample code on a high level programming

Advantages

1. Less time for processing.
2. More Accurate result.
3. More efficient.

Results and Discussion

By utilizing the all machine learning enhanced algorithms/ techniques easily we will get the prediction. In this project we used Logistic regression, Decision tree, Random forest, MLP classifier, Naive Bayes, SVM, K-nearest neighbor algorithms. Each algorithm will play a different role, based on their performance level we will get the accurate predicted outputs. Decision tree (98.82%) and random forest (98.81%) gives the good results as expected from the preprocessed data.

Table 2: Accuracy table

	Algorithms	Accuracy
0	Logistic regression	98.00
1	Random forest	98.81
2	Decision tree	98.82
3	k nearest neighbor	98.70
4	Naive bayes	98.70
5	Support vector machine	98.70
6	MLPClassifier	98.60

In the Above table shows the few algorithms accuracy for our input data, here decision tree (92.82%) have high accuracy.

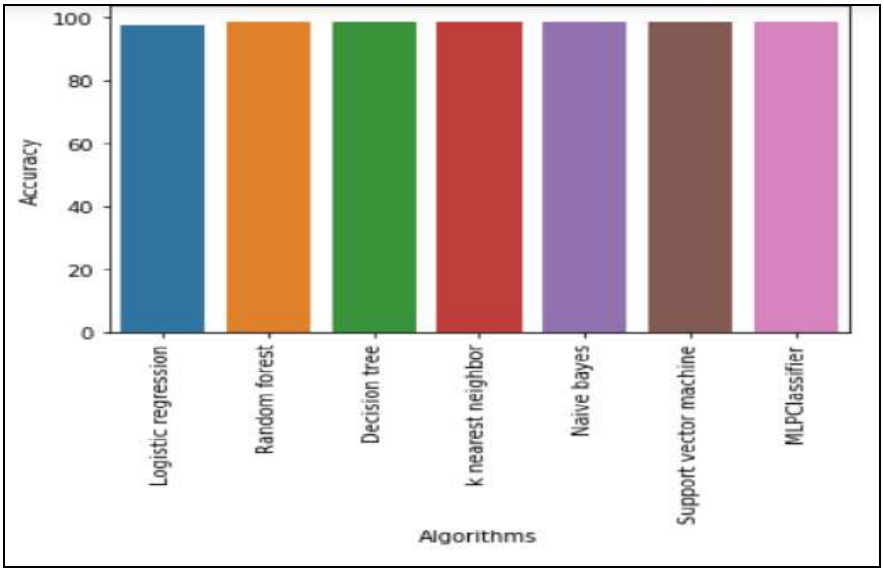

Fig 2: Accuracy Graph

In the Above Graph shows the few algorithms accuracy for our input data, here decision tree (92.82%) have high accuracy.

Conclusion

All through the exploration paper, we have talked about different AI calculations that can assist us with organizing and the immense measure of Twitter information got including a great many tweets and instant messages investigate shared each day. These AI calculations are compelling and valuable with regards to breaking down a lot of information including the SPC calculation and straight logarithmic Factor Model methodologies which help to additionally order the information into important gatherings. Bolster vector machines are one more type of AI calculation that is extremely well known in removing Useful data from Twitter and get a thought regarding the status of ladies' security in Indian urban areas.

References

1. Agarwal, Apoorv Fadi Biadsy, Kathleen R. Mckeown. "Contextual phrase-level polarity analysis using lexical affect scoring and syntactic n-grams. Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics. Association for Computational Linguistics, 2009.
2. Barbosa Luciano, Junlan Feng. Robust sentiment detection on twitter from biased and noisy data. Proceedings of the 23rd international conference on computational linguistics: posters. Association for Computational Linguistics, 2010.
3. Bermingham, Adam Alan F. Smeaton. Classifying sentiment in microblogs: is brevity an advantage." Proceedings of the 19th ACM international conference on Information and knowledge management. ACM, 2010.
4. Gamon Michael. Sentiment classification on customer feedback data: noisy data, large feature vectors, and the role of linguistic analysis." Proceedings of the 20th international conference on Computational Linguistics. Association for Computational Linguistics, 2004.
5. Kim Soo-Min, Eduard Hovy. Determining the sentiment of opinions." Proceedings of the 20th international conference on Computational Linguistics. Association for Computational Linguistics, 2004.