WOMEN SAFETY IN INDIAN CITIES BASED ON TWEETS USING XG BOOST ALGORITHM

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ABSTRACT

This project centres round the job of online media in advancing the safety of girls in Indian urban communities, given the exceptional relation to the task of web based media sites or applications. Now-a-days most people are using social networking sites to precise their feelings and if any women feel unsafe in any area then she's going to express negative words in her post/tweets/messages and by analysing those messages we will detect which area is more unsafe for women's. This might be very beneficial to extend safety in dangerous areas for ladies travellers.The main objective of our project is to investigate the assorted types of violence and threats against the ladies by making use of preferred and powerful social media data and by using the concept of machine learning. The quantity of likes, tweets, comments, blogs and post on the actual incident against woman may be used for this analysis. These Social networking sites collectively update the feedback about particular incident and it'll be exhibit under the discussion of the many people. This can give the world picture of assorted crimes against woman and showcase how the intention framed and motivation behind the scenario. This data would be helpful to safeguard the lady from the unlikely violence against them within the society.

INTRODUCTION

In India ladies are revered by individuals regarding them as goddesses where as there are expanding number of savagery against ladies. The brutality against ladies has expanded by numerous folds because of the more prominent openness of ladies in each field of life. Wrongdoing against ladies like assault, corrosive tossing, endowment killings, honour killings and constrained prostitution of little youngsters has been accounted for in India. The examination across most mainstream Metropolitan urban areas of India including Delhi, Bangalore and Mumbai shows that ladies feel risky while going out to work or while going out in the open vehicle and so on, true insights show a sensational

expansion in the quantity of revealed wrongdoings against ladies.

Nowadays women are experiencing plenty of violence like harassment in places at several cities. This starts from stalking which then results in abusive harassment or also called abuse assault. during this project we mainly concentrate on the role of social media which may be wont to promote the security of girls in India, given the special relevancy the participation of the many social media websites or applications like Twitter, Facebook and Instagram platforms. This project motivation is to develop the responsibilities among the people on the varied parts of Indian cities in order that the protection of girls around them is ensured.

EXISTING SYSTEM

Employment opportunities, better education, higher standard of living or simply a craze to measure within the city attract a serious a part of the population to migrate to metropolitan cities. With dreadful incidents of rape, acid attacks and assault on women, the protection of girls is at an excellent risk. Women avoid wearing a selected kind of clothes, don't stay late at office, use only crowded public transportation in late hours, avoid visiting certain place at dark or preferred being among a male companion while travelling. This simply postpones the crime, rather than preventing it in terms of safety.
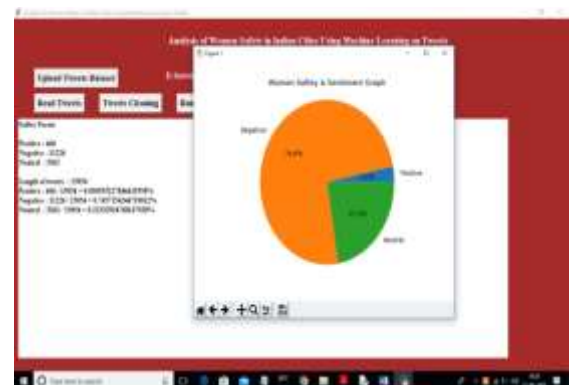
PROPOSED SYSTEM

The proposed system introduces the model so as to eradicate harassment within the society. the key idea behind this scenario to gather opinions and interests of individuals through multiple social networking sites, due to the actual fact that social networking sites are powerful and spread information everywhere globe during a very less time also, they contain huge data regarding social issues. Hence data regarding this idea found through social networking where opinions, comments, likes and dislikes of individuals are found. This paper examines essential centers round the function of web-based media in advancing the safety of girls in several areas with exceptional relevancy the a part of online media sites and applications including Twitter stages. Tweets on Twitter which usually contains pictures and text and furthermore composed messages and statements which centres round the security of girls in numerous urban areas will be utilized to peruse a message among the generation and instruct individuals to create exacting move and rebuff the individuals who disturb the women. This will give the world picture of assorted crimes against woman and showcase how the intention framed and motivation behind the scenario.
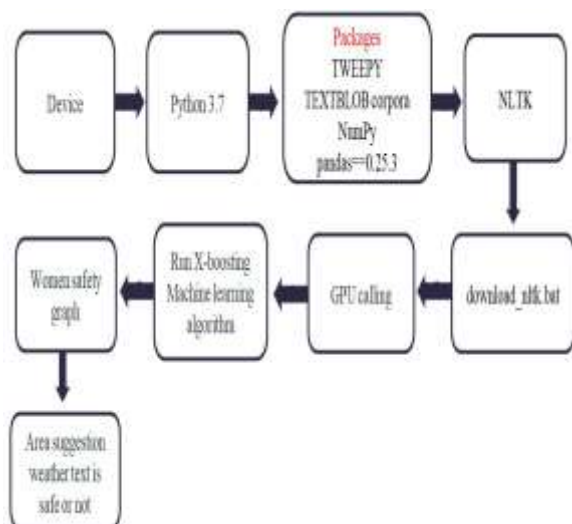
IMPLEMENTATION

In this project, we will propose an idea for evaluating women's safety using social networking messages and identifying which areas are safe and which areas are risky for women using machine learning algorithms. We'll be using Python and NLTK (Natural Language Tool Kit) to download tweets concerning women's safety via MEETOO. We then use the XG Boost method, a famous Machine Learning algorithm, to evaluate the tweets and develop a women safety graph as an output. This project might potentially be put as an add-on to social networking apps so that females can identify whether conversing with a certain individual is safe or unsafe for them. By this project, we can identify risky places in metropolitan cities and increase safety within these areas as a result of our research, allowing women to feel safe to go wherever they want.

SAMPLE SCREENS

SYSTEM ARCHITECTURE

CONCLUSION

As an outcome, our study will present a global picture of various crimes against women and demonstrate how the scenario's goal and motivation are structured. We can identify risky areas in metropolitan cities and increase safety in those areas as a result of our project, allowing women to feel free to go wherever they want. As a result, we present recommendations in order to reduce the possibility of unsecured problems appearing in society, which will undoubtedly aid in lowering the risk of these devious actions affecting society, and by rigorously adhering to the rules, we will be able to reach a greater level of security.

FUTURE SCOPE FOR FURTHER DEVELOPMENT

These algorithms have the potential to make a significant difference in women's safety by extracting data and creating a diverse range of datasets to work with. In the near future, we intend to work on this project more and tweak it to make it even more efficient.

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