Security Travelling System for Women's using Machine Learning

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Abstract- In today's world Victimization Sensible Phones having chop-chop and thence sensible phone may be used expeditiously for private security. A so many latest apps are developed to produce a security system to girls via their phones. As Per the reports of World Health Organization NCRB Social Government Organization thirty-fifth girls everywhere the earth quad measure facing a great deal of immoral Physical Harassment in public places like Railways, Bus-stands and pathway etc. During this Paper, we have got reviewed of assorted existing systems on women security. We have got fade a requirement of advanced girls security system to provides the safety live at public places likewise as travelling alone through public transports such as College Buses, Company Vehicles etc. In these projects we help to find safe route for women to travel.

Index-Terms: IOT, Machine learning, Women's Security, IOT based solution, Registered Contacts.

I. INTRODUCTION

Women security is biggest thing and biggest issue in overall world. women's equal participation and leadership and the empowerment of women and girls is of critical importance to reconcile, conciliating, enabling recovery and building potency. But women are not secure in any sector. They face lot of struggles in daily routing life. incursion on women has become a trend nowadays, and it's high time for women to take their security and safety in their hands. In modern days, women should have selfawareness "having the confidence in one's ability to deal with a situation without being swamp". assurance reflects confidence in the ability to exert control over one's own motivation, behavior, and social environment". Encouraging women to travel anywhere in the day or night without any worry is the main motive. The software help to find the safe route

for travelling and The idea is to predict the safe route and render the hampering measures for the women. In order to confront the asseverate crime situations and display the route with the rate of crime at the selected route. Hence, allows women to avoid exact places of special crimes.

Security Of Women In India A big deal is that though women has perform everywhere in every field but still a question arises, "IS SHE SAFE". Latest statistics released by National Commission for Women (NCW) proved that India is risky for women and Uttar Pradesh transpire as the most insecure place for women followed by Delhi.

After more than 60 years of supremacy, this fact is humiliating for citizens. Police records show high occurrence of crimes against women in India. Most working women across India feel self-effacing about their safety, mostly during night shifts. Every day ,there is at least one or more news about shocking incidents of bedevilment or molestation against women. Various app is introduced for women's security.

These apps function by support the protection and security of women by classify things that may come in handy in an emergency situation at one place. Now there came news of Kill and Sextual Assaults of BPO women in Bangalore and Delhi. In most cases, culprits are compelled and courageous, and cases are lying in various district court. One of the main reason is the weak functioning governing. In some cases, police don't take any action if such incident happens in front of them and remains silent which is very embarrassing for our police department. In most of the cases, the criminals are cop but free on bail and no strict punishment is given to them.

II. LITERATURE SURVEY

With the priority of saving the girl from evil crimes like molestation variety of safety applications are developed. A number of such applications supply the solutions for atrocities of ladies exploitation mobile buttons whereas some applications area unit designed within the type of hardware gadgets with sensors and microcontrollers several etc. systems technologies like SOS (Save our souls) message, GSM (Global System for Mobile) and Wi-Fi Fidelity) for (Wireless networks message communications. we tend to reviewed some previous solutions for girls safety that area unit explained any. Harikiran et al, 2017[13] designed a tool "smart band" that is connected to the phone via Bluetooth that trigger an indication and transfer it to the sensible phone. the applying is pre changed. and stacked with all the specified data which includes human conduct and responses to numerous circumstances like outrage, dread and tension. At no matter purpose it gets crisis flag, it'd send the demand for facilitate to the final population in shut region for early activity The peculiar feature of this mobile application is that it sends the message to the noncommissioned contacts often when 5 minutes interval until the user press "stop" button.

Ansari et al , 2016[23] planned a sensible transportable device for safety purpose of ladies that sends the message and live video to predetermined contacts. Force sensing element, Raspberry pi as a microcontroller and GPS/GSM module area unit wont to pre-program the device. The widget gets activated on pressing the push {which will which may which might} turn out the high sound buzzer within the close so near folks can facilitate the victim. Thota & Yarrabothu, 2016 [15] given a mobile application "Abhaya" for the women's safety that just in case of unsafe circumstances, sends the data regarding gift location of the user within the type of text message to the selected contacts together with telephone call to the primary registered contact variety within the app. The peculiar feature of this mobile application is that it sends the message to the non-commissioned contacts often when 5 minutes interval until the user press "stop" button.

Chand, Dhruv et al,2018[14] effectively engineered mobile application "WoSAPP" for lady security with straightforward computer programme. The user of this application will activate this application by shaking the mobile that sends the alert message to

near police office that successively give notice the user's inscribed contacts. The Mangalore police office in state, Bharat devoted a hotline to the emergency calls utilizing "WoSApp".

V. Pawar& Wankhede, 2014[18] have developed associate degree humanoid application "SCIWARS" which might send the text message or voice recording to the selected contacts other by the user whereas registration on this application. This application works on 2 totally different modules together with the power that whether or not the victim needs to register the grievance to police or not. Moreover, the applying tracks the situation of the victim with the assistance of GPS.

Ashiq &Manivelprabhu, 2014[17] have designed the electrical shock antenna watch with integral microcontroller that together with passing shock to the suspect sends the SMS (Short Message Service) to the pre appointed contacts and police office within the shut space. it's price economical regular watch which will facilitate the ladies at risk things.

III. PROBLEM STATEMENT

The main functionality of software is to check the route we select for travelling is safe or not. this software is help to find the location. First of all, we have to register our self on this software, then login and one interface is open we have to check on that which route is safe for girls to travel. If we travel some ware and we found this route is not safe in that case you will send the emergency alert with your location to register contact. So, register contact will help you to protect.

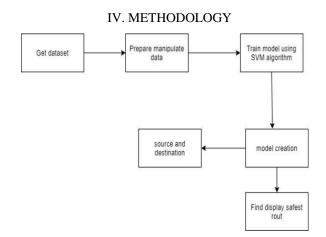


Fig. System Architecture

In this software first of all register then you're your data is stored in database with the proper username and password you can login yourself when the women is logged in and click on best route prediction button and enter the source and destination system will generate which path is safe for women to travel & you can see path in google map also by clicking display google map. And if your selected route is not safe then you can send the emergency message to your register number.

Support vector machine algorithm of machine learning is used for these project PyCharm IDE that Integrated Development Environment is to be used. Python Programming Language is used because it is highly specified Programming language for machine learning because of availability of high-Performance Libraries.

V. RESULT



Here we to put some information for registration



Registration form: put your valid details in this form to get register. There is a pop-up message that account is created successfully. This message is display when you successfully register.



here is you Login form enter your valid username and passeord



And click on Login button. This is the page where login get successfully. if you already register then only you will login.

VI. CONCLUSION

Women's are not safe anywise not outside and also not home. In above survey, there are so many applications are there which are help women to prevent from domestic violence, rape, kidnapping and any other unfortunate condition. This software also helps the women to find which route is safe and best for them to travel and also you can seethese route in google map by pressing on button if you don't know the route. If you are selected any unsafe route so you can send your location to register contact for safe travelling. There no matter you are login with same desktop or phone or not. Your registration information is stored on database so you can login with any other system.

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