

ANALYSIS OF WOMEN SAFETY IN INDIAN CITIES USING TWITTER DATA

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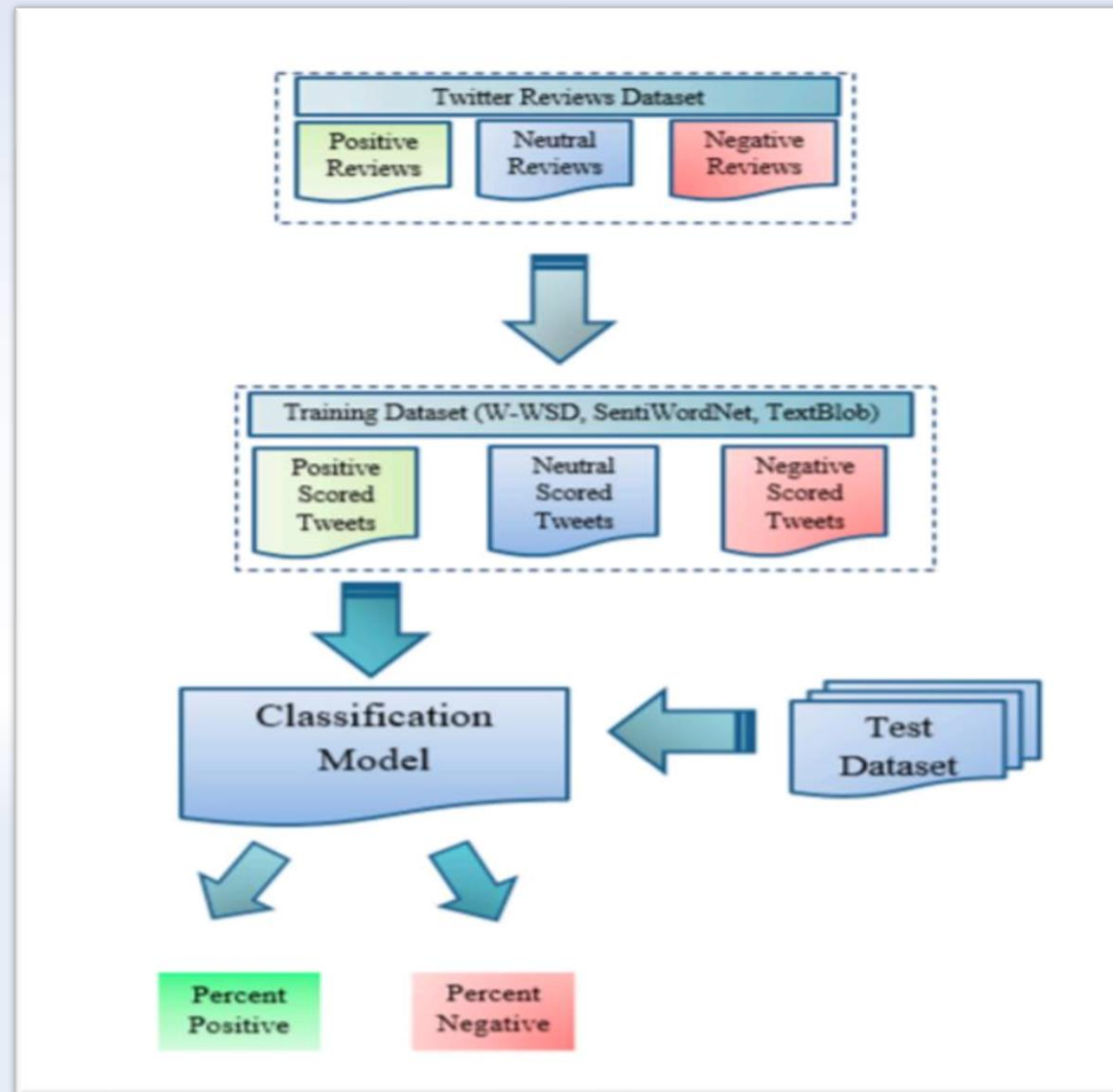
Department of Computer Science & Engineering

BVRIT HYDERABAD College of Engineering for Women

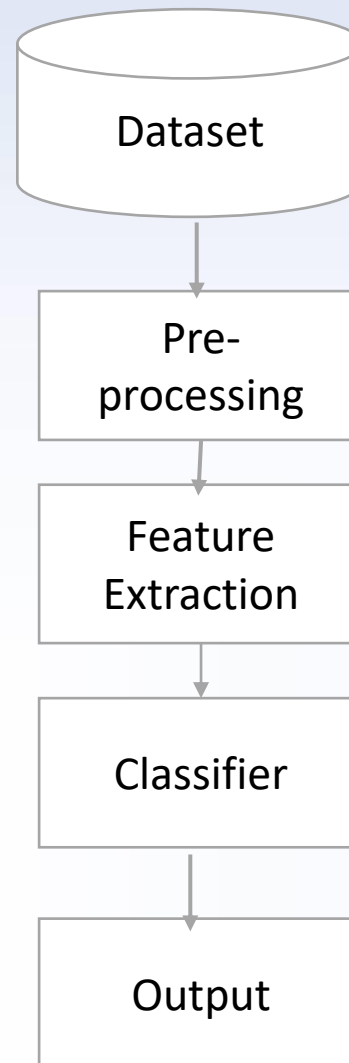
Abstract

Nowadays women are experiencing lots of violence such as harassment in places in several cities. This starts from stalking which then leads to abusive harassment or also called abuse assault. In this project we mainly focus on the role of social media which can be used to promote the safety of women in India, given the special reference to the participation of many social media websites or applications such as Twitter platform. This project also focuses on developing the responsibilities among the common people on the various parts of Indian cities so that the safety of women around them is ensured. So this project aims at finding safety percentage of a city in the ideology of women safety by finding polarity of comments.

Architecture



Flow Diagram



Working modules

- Dataset upload
- Pre-processing data
- Extracting dataset
- Splitting dataset training and testing
- Applying models.

OUTPUT

Analysis of Women Safety in Indian Cities Using Twitter data

Upload Tweets Dataset

Read Tweets Tweets Cleaning Run Machine Learning Algorithm Women Saftey Graph

Analysis of Women Safety in Indian Cities Using Twitter data

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Analysis of Women Safety in Indian Cities Using Twitter data

Upload Tweets Dataset

Read Tweets

Tweets Cleaning

Run Machine Learning Algorithm

Women Saftey Graph

H:/MAJOR PROJECT/WomenSafteyMachineLearning/dataset/MeToo_tweets.csv loaded



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ENG

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graph TD; A[Upload Tweets Dataset] --> B[Read Tweets]; B --> C[Tweets Cleaning]; C --> D[Run Machine Learning Algorithm]; D --> E[Women Saftey Graph];
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The flowchart illustrates the process of constructing a Women Safety Graph. It begins with the step 'Upload Tweets Dataset', which leads to 'Read Tweets'. From 'Read Tweets', the process continues to 'Tweets Cleaning', then to 'Run Machine Learning Algorithm', and finally to 'Women Saftey Graph'.

@Rightsatbirth: "What he did was manipulative, dishonest, and coercive. Coerced sex isn't consensual sex, it is sexual assault. The bird" Happy 94th Birthday to @AngelaLansbury Bedknobs & Broomsticks is still one of my favorite movies. Here's hoping https://t.co/C24mvhyxjL"

@RepLoriTrahan: Two years ago #MeToo woke up our nation. It's become part of our national consciousness, demanding better for survivors

@RituG15: #TimesUp #MeTooVoter #MenToo #Metoo #Brexit #WednesdayWisdom Time has come that laws should be amended so that rampant fake

@ambertamblyn: Months before MeToo broke us wide open, a man tapped me on the shoulder at a restaurant and said he had read this op-ed

@manny_ottawa: What a year on twitter- I've seen Liberal: 1. Lawyers - defend attack on Rule of Law- #ObstructionOfJustice 2. Feminis Child Advocate Weighs in on New London School Sex Abuse Investigation - NBC Connecticut https://t.co/YyX7uFzcdO2 https://t.co/vXUL7EVxDP

@Rightsatbirth: "What he did was manipulative, dishonest, and coercive. Coerced sex isn't consensual sex, it is sexual assault. The bird"

@socialiststeve6: I would instead tell my 2 daughters . . . During the time of the #MeToo movement it is very very very very very very

@QueerMinistry: Whether queer in sexuality, gender, culture or creed: Help Queer Ministry uplift your community in love. We believe fai

#MeToo and ME TOO https://t.co/yRCnGHZ3iA'

@ggbrokensilence: @RachelintheOC I'm not surprised either. Every so often one of these threads pops up like a mini-metoo moment, and gen

@tba2012: Left wing success is a shit hole to the rest of us #MeToo #MeTooMovement #samich #MAGA #Blexit #WalkAway #WeBuildTheWall #KAG2

@manny_ottawa: What a year on twitter- I've seen Liberal: 1. Lawyers - defend attack on Rule of Law- #ObstructionOfJustice 2. Feminis

@heyyguido: Can we PLEASE move away from focusing so much on health care in the next debate. We all know where they stand by now. We wan

@IreneWoodbury: Jen & Colton + Brandi & Matt + Zane = Non-Stop Drama ! Pop-Out Girl. At #TatteredCover Book Stores, Denver. GreatReads

@davidgsmithphd: Men's current #MeToo hysteria has men living in fear at work. Curing men's Gynophobia--abnormal fear of women--requires

@RealCandaceO: I think Matt Lauer is a scumbag as a father and husband. But I also think his accuser a 30 yr old woman who clearly exch

dmelster @kaceytron @ladygaga @Ninja Then cancel culture and metoo, he played this right. Ahead of the curve.'

ReillyRick In 1981??? Really??? So because of something he said 40 years ago you're going to chastise him? You're https://t.co/khotLe8vYU'

@LisaBritton: During this time of MeToo, it is also very very very very very very very very important to teach young girls that mak

@manny_ottawa: What a year on twitter- I've seen Liberal: 1. Lawyers - defend attack on Rule of Law- #ObstructionOfJustice 2. Feminis

@McDonalds, it is your responsibility to take real steps to ensure safe workplaces. You're making our need for uni https://t.co/k2GhPvcgdz'

@RituG15: #TimesUp #MeTooVoter #MenToo #Metoo #Brexit #WednesdayWisdom Time has come that laws should be amended so that rampant fake

@manny_ottawa: What a year on twitter- I've seen Liberal: 1. Lawyers - defend attack on Rule of Law- #ObstructionOfJustice 2. Feminis

Analysis of Women Safety in Indian Cities Using Twitter data

Upload Tweets Dataset

Read Tweets

Tweets Cleaning

Run Machine Learning Algorithm

Women Safety Graph

rightsatbirth manipulative dishonest coercive coerced sex consensual sex sexual assault
happy angelalansbury bedknobs amp broomsticks still one favorite moviesnnheres
reploritrahan two years ago metoo woke nation become part national consciousness demanding better
timesup metooovoter mentoo metoo brexit wednesdaywisdom ntime come laws amended rampant
ambertamblyn months metoo broke us wide open man tapped shoulder restaurant said read oped
mannyottawa year twitter lawyers defend attack rule law obstructionofjustice
child advocate weighs new london school sex abuse investigation nbc connecticut
rightsatbirth manipulative dishonest coercive coerced sex consensual sex sexual assault
would instead tell daughters nduring time metoo movement
queerministry whether queer sexuality gender culture creed help queer ministry uplift community love believe
metoo
ggbroksensilence rachelintheoc im surprised either every often one threads pops like minimetoo moment
left wing success shit hole rest us metoo metoomovement samich maga blexit walkaway webuildthewall
mannyottawa year twitter lawyers defend attack rule law obstructionofjustice
heyyguido please move away focusing much health care next debate know stand nownwe
irenewoodbury jen amp colton brandi amp matt zane nonstop drama popout girl tatteredcover book stores
davidgsmithphd mens current metoo hysteria men living fear work curing mens gynophobiaabnormal fear
realcandaceo think matt lauer father husband also think yr old woman clearly
kaceytron ladygaga ninja cancel culture metoo played right ahead curve
reillyrick really something said years ago going chastise
lisabritton time metoo also important teach young girls
mannyottawa year twitter lawyers defend attack rule law obstructionofjustice
mcdonalds responsibility take real steps ensure safe workplaces making need
timesup metooovoter mentoo metoo brexit wednesdaywisdom ntime come laws amended rampant
mannyottawa year twitter lawyers defend attack rule law obstructionofjustice



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Analysis of Women Safety in Indian Cities Using Twitter data

Upload Tweets Dataset

Read Tweets

Tweets Cleaning

Run Machine Learning Algorithm

Women Saftey Graph

rightsatbirth manipulative dishonest coercive coerced sex consensual sex sexual assault

Predicted Sentiment : NEGATIVE

Polarity Score : 0.1

happy angelalansbury bedknobs amp broomsticks still one favorite moviesnnheres

Predicted Sentiment : POSITIVE

Polarity Score : 0.65

reploritrahan two years ago metoo woke nation become part national consciousness demanding better

Predicted Sentiment : NEUTRAL

Polarity Score : 0.5

timesup metooovoter mentoo metoo brexit wednesdaywisdom ntime come laws amended rampant

Predicted Sentiment : NEGATIVE

Polarity Score : 0.0

ambertamblyn months metoo broke us wide open man tapped shoulder restaurant said read oped

Predicted Sentiment : NEGATIVE

Polarity Score : -0.05

mannyottawa year twitter lawyers defend attack rule law obstructionofjustice

Predicted Sentiment : NEGATIVE

Polarity Score : 0.0

child advocate weighs new london school sex abuse investigation nbc connecticut



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15:32
27-05-2021

Analysis of Women Safety in Indian Cities Using Twitter data

Upload Tweets Dataset

Read Tweets

Tweets Cleaning

Safety Factor

Positive : 466

Negative : 11226

Neutral : 3362

Length of tweets : 15054

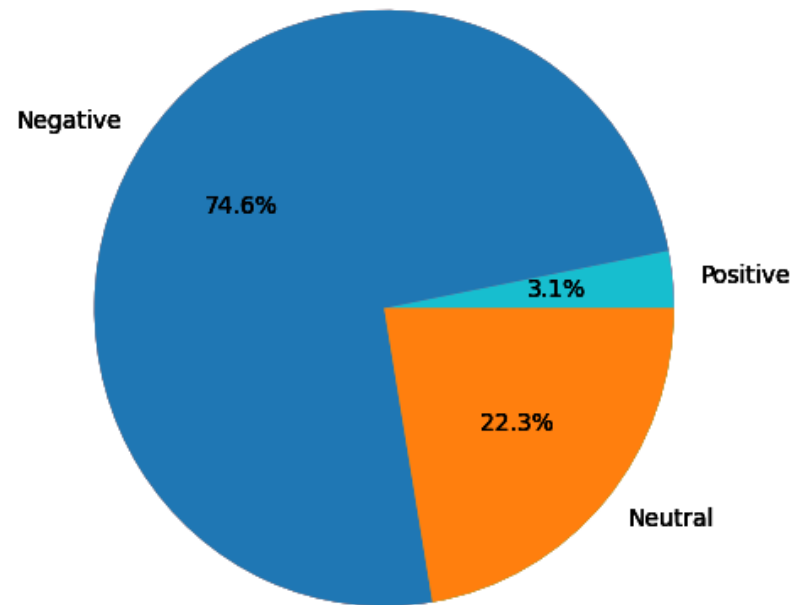
Positive : $466 / 15054 = 0.030955227846419558\%$

Negative : $11226 / 15054 = 0.7457154244719012\%$

Neutral : $3362 / 15054 = 0.22332934768167928\%$

Figure 1

Women Safety & Sentiment Graph



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21:45
18-05-2021



SYSTEM SPECIFICATIONS

ENVIRONMENT	SPECIFICATIONS
HARDWARE	Intel core i5 processor RAM 4GB Hard Disk Drive 1 TB
SOFTWARE	Windows 10 Python idle 3.2.8

CONCLUSION

In this we have used different Machine Learning techniques that can push us to put together and examine the immense measure of Twitter information. Subsequently we can perform AI calculations to accomplish nostalgic investigation and carry more safety and security to ladies by spreading the mindfulness. For the future improvement, we can stretch out to apply these Machine Learning techniques on various web-based media stages like face book and integral likewise since in our work just twitter is thought of. Present viewpoint which is proposed can be incorporated with the twitter application interface to arrive at bigger degree and apply wistful examination on a large number of tweets to give more wellbeing.

References

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- [6] Bermingham, Adam, and Alan F. Smeaton. "Classifying sentiment in microblogs: is brevity an advantage." ACM, 2010.

Thankyou