

# Analysis Tweets using Machine Learning for Women Safety

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**Abstract:** *Women are currently subjected to a great deal of violence, including harassment, in a number of cities. This begins with stalking and progresses to abusive harassment, also known as abuse assault. In this study, we primarily focus on the role of social media in promoting women's safety in India, with particular attention paid to the participation of several social media websites or applications, such as Twitter, Facebook, and Instagram platforms. This study also focuses on instilling duties among the general public in various regions of Indian cities in order to protect the safety of women in the vicinity. Text messages, audio data, video data, photos, smiling expressions, and hash-tags are all included in a tweet on the Twitter program. This tweet content can be used to educate individuals and to take strict steps if tweets are hostile to women, and to penalize such persons if harassment occurs. Hash-tag-enabled applications, such as Twitter and Instagram, may be used to send messages throughout the world and provide women the freedom to express their thoughts and feelings. We can learn about their mental condition when they go to work, travel in public transportation, or are surrounded by unknown guys, and whether they feel safe or not.*

**Keywords:** Women, Safety, Sexual Harassment, Hash tag, Sentimental Analysis.

## REFERENCES

- [1]. Apoorva Agarwal, Fadi Biadisy, and 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]. Luciano Barbosa and 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]. Adam Bermingham and 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]. Michael Gamon. "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]. Soo-Min Kim and Eduard Hovy. "Determining the sentiment of opinions." Proceedings of the 20th international conference on Computational Linguistics. Association for Computational Linguistics, 2004.
- [6]. Dan Klein and Christopher D. Manning. "Accurate unlexicalized parsing." Proceedings of the 41st Annual Meeting on Association for Computational Linguistics
- [7]. Eugene Charniak and Mark Johnson. "Coarse-to-fine n- best parsing and MaxEnt discriminative reranking." Proceedings of the 43rd annual meeting on association for computational linguistics. Association for Computational Linguistics, 2005.
- [8]. Gupta B, Negi M, Vishwakarma K, Rawat G & Badhani P (2017). "Study of Twitter sentiment analysis using machine learning algorithms on Python." International Journal of Computer Applications, 165(9) 0975-8887.
- [9]. Sahayak V, Shete V & Pathan A (2015). "Sentiment analysis on twitter data." International Journal of Innovative Research in Advanced Engineering (IJIRAE), 2(1), 178-183.

- [10]. Mangain N, Mehta E, Mittal A & Bhatt G (2016, March). "Sentiment analysis of top colleges in India using Twitter data." In Computational Techniques, in Information and Communication Technologies (ICCTICT), 2016 International Conference on (pp. 525-530). IEEE.