**CERTIFICATE**

This is to certify that the project entitled **“Sentiment Analysis Using Modified Naïve Bayes Classifier”**is a bonafide work of **“Sumit Anglekar (01), Vidish Raut (28), Manali Shiurkar (32)”** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **“Bachelor of Engineering”** in **“Computer Engineering”**.

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**Declaration**

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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**Submitted by:**

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**Abstract**

Sentiment Analysis (SA) is an ongoing field of research in text mining field. SA is the computational treatment of opinions, sentiments and subjectivity of text. Sentiments are expression of one’s words in a sentence. Hence understanding the meaning of text in the sentence is of outmost importance to people of various fields like customer reviews in companies, movie reviews in movies, etc. It may involve huge text data to analyze and it becomes totally unviable for manually understanding the meaning of sentences. Machine Learning Classifier algorithm should be used to classify the sentiment of the text data. We have used supervised machine learning algorithm. By using appropriate training data to train our two different classifiers namely Naïve Bayes and Maximum Entropy, we can simplify the task of text classification. In general, we accept a keyword by user as input, fetch tweets related to that keyword from twitter, run classifier on that fetched data and display classified results of twitter tweets in terms of positive, negative and neutral along with the count represented by charts.

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