CANDIDATE'S DECLARATION

We hereby certify that the work presented in this report entitled "Twitter Sentiment Analysis" in fulfilment of the requirements for the award of Bachelor of Technology with specialization in Computer Science and Engineering, submitted to National Institute of Technology, Jalandhar is an authentic record of our own work carried out during the period, August 2016 to May 2017 under the supervision of Dr. Rajneesh Rani, Assistant Professor, Department of Computer Science & Engineering, National Institute of Technology, Jalandhar.

We have not submitted the matter presented in this report to any other university or institute for the award of any degree or for any other purpose.

Date:

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This is to certify that the statement submitted by the above candidate is correct and true to best of our knowledge, further it is recommended for external evaluation.

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ABSTRACT

The project introduce a novel approach for automatically classifying the sentiment of Twitter messages. These messages are classified as positive or neutral or negative with respect to a query term.

Twitter is an online micro-blogging and social-networking platform which allows users to write short status updates of maximum length 140 characters. Twitter is a rapidly expanding service with over 200 million registered users -out of which 100 million are active users and half of them log on twitter on a daily basis –generating nearly 250 million tweets per day.

Due to this large amount of usage we hope to achieve a reflection of public sentiment by analysing the sentiments expressed in the tweets. Analysing the public sentiment is important for many applications such as firms trying to find out the response of their products in the market, predicting political elections and predicting socioeconomic phenomena like stock exchange.

We present the results of machine learning algorithms for classifying the sentiment of Twitter messages using a novel feature vector. Our training data consists of publicly available twitter messages obtained through automated means. We show that machine learning algorithms (Naive Bayes and Maximum Entropy) can achieve competitive accuracy when trained using our feature vector and the publicly available dataset.