

# Social Media Sentimental Research using Machine Learning Techniques

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**Abstract:** Social media is the main resource to collect information about people opinion towards different topics as they spend most of their time on social media and share their thoughts. In this technical paper we present the applications of sentimental analysis. As we chosen twitter as our analysis platform we show how to connect to twitter and run analysis queries. We illustrate approach to issue with the model to different fields and show the best results.

**Keywords:** Social media, Sentimental analysis.

## I. INTRODUCTION

Opinion mining is very important research area because due to the large amount of data is posted on social media. The people accessing to the internet are increasing day by day. It is difficult to provide best to the users without some analysis.

Sentimental analysis is a must required process in every filed of business to get feedback of their products by which organizations can take it and use in further development pf product.

The best approach to social media analysis allows the network through connections that develop with in. Twitter is used to track opinions in those cases in which changes to be done, So we focus more on twitter in this paper.

The text data of users is taken and provide the solution by summarizing and training it. The result is given whether the analysis is positive, negative or neutral. In this method words are tokenized from raw text data of users tweets.

Datatype comprehension is troublesome one to explain. Along these lines, AI procedures like managed and unsupervised calculations are being utilized. We are moving toward two kinds of investigation. First methodology is to construct word mists from clients data(tweets), and the second methodology is to show chart visuals of a specific point examining on informal organization through information. Few methods are been used to understand the text. We use natural language tool kit(NLTK) and logistic regression approach for sentimental analysis where it classifies text into binary classification(0 or 1). The text is classified into positive and negative one. Words with hate classifies as negative one. The graph visuals represent general report and detailed report where it shows people thoughts in percentage.

In this paper, we will examine online networking wistful examination and significance of it in different fields and how distinctively it tends to be drawn closer. And

furthermore about twitter customer key and access token which is rich asset for information and its examination.

## II. SOCIAL MEDIA ANALYSIS

Internet based life wistful examination is the investigation of individuals assessment and thought on different subjects, patterns and these days it is must for business. Numerous individuals express their conclusions on numerous subjects on well known patterns via web-based networking media like twitter. Wistful examination has numerous advantages in business.

Twitter is the most prominent informal organization on hot patterns very day. Twitter is the rich asset to find out about individuals supposition and do nostalgic examination. All tweets on specific point can be determined as whether it is sure, negative, or unbiased.

Users generally use short cuts to spell a word. It becomes tough situation to mine the text. Natural language processing is used to solve this problem. It is done by using natural language tool kit.

## III. TWITTER SENTIMENTAL ANALYSIS

Social media is the main resource to collect information about people opinion towards different topics as they spend most of their time on social media and share their thoughts. There are many opinion mining systems regarding different topics. This sentimental analysis will be beneficial in many businesses and politics.

Social media like twitter contains the large amount of data in the form of tweets. Usually people use many short words and abbreviations which is very difficult to extract text. Along with natural language processing we approach through machine learning techniques to make the operation easy and simple.

## IV. DESIGN AND IMPLEMENTATION & RESULTS

This paper demonstrates the execution of twitter wistful examination by buyer key and access token which is given by twitter. There are many tools and best libraries are used in this project.

Implementation is mentioned in step by step method.

- Downloading twitter dataset for classification.
- Importing required libraries.
- Cleaning dataset by replacing missing values with mean value and dropping some columns which are not used.

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