

SENTIMENTAL ANALYSIS FROM TWEETS TO FIND POSITIVE, NEGATIVE, NEUTRAL OPINIONS

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Abstract - Twitter motivates people to share their thoughts and express their opinions. The sentiment analysis of **political tweets** becomes more valued over time. These sentimental analysis from tweets according to many articles it is not so efficient to determine exact people mind and their wavelength, so to perform sentiment analysis which is more efficient one we are using **Natural Language Processing** and make use of **Naive bayes** algorithm. Everything the analysis results will be easily understandable form as **Bar chart** and **Pie chart**. Here we use **Topic Modeling** to determine on which topic the keyword is particularly used for multiple times to determine its frequency of occurrence.

1. INTRODUCTION

Nowadays, Most of the people considering people's thoughts and words as a valuable thing. Even the political issues, governments, and other environmental factors are considered by people opinions and their views. Sentiments are the expressions given by the user which is the main source of our interest in that particular matter if we could evaluate that better we can get positive and negative view of particular situation which matters most of the time from people.

1.1 Existing Methodology

This research proposed a technology that from the product reviews given by the user the software will analyze it and recommend similar products to the user. It will recommend the user based on the frequent reviews for the products given by them.

1.2 Proposed Methodology

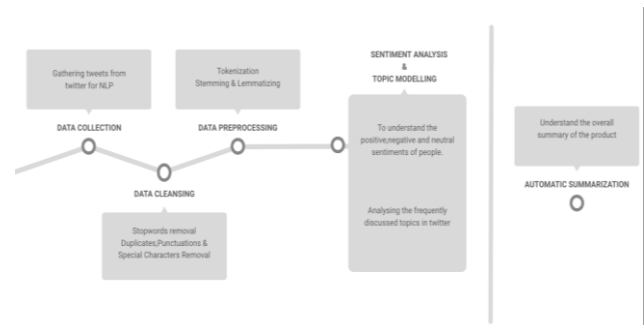
Twitter plays a vital role in spreading information and influencing people's opinions in a specific direction. As an easy-to-use platform, Twitter motivates people to share their thoughts and express their opinions. In this we use machine learning techniques to analyze the tweets by Natural Language Processing to process the datasets.

2. SYSTEM ARCHITECTURE

Initially Data collection is done where all the data is gathered from the twitter media, Then stop words removal Duplicates, Punctuations and Special Characters Removal are done in the Data cleansing layer. Then it comes to Preprocessing where

all the data gets segregated as per tokenization, stemming and lemmatization. After preprocessing, Sentimental analysis will be done from the gathered tweets using Natural language processing. And finally topic modeling is done using Naive bayes decision making algorithm.

DATA FLOW DIAGRAM



2.1 Gathering Tweets

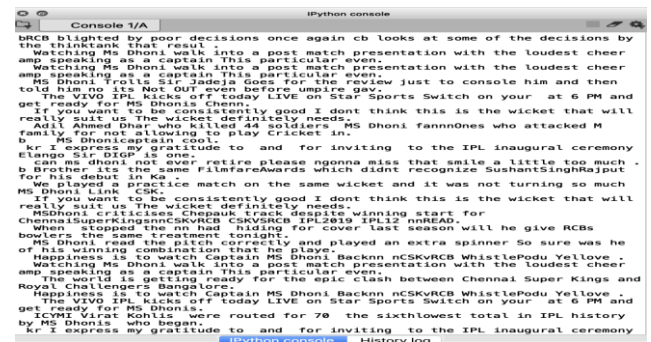


Fig 2.1 Twitter Extraction based on query

Fig 2.1 shows the extracting process of tweets in our project, These texts are the tweets extracting from the twitter.

2.2 Bar chart

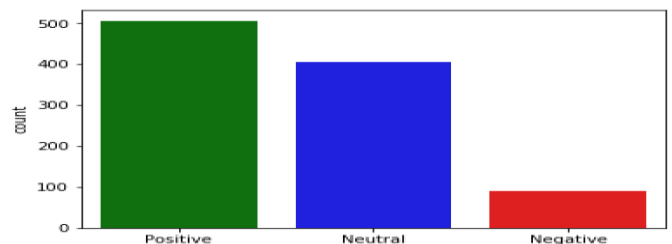


Fig.2.2 Results displayed in BAR Chart based on analysis

