**CLASSIFICATION OF TWITTER POSTS TO NEWS CATEGORIES AND ITS SENTIMENTAL ANALYSIS**

ABSTRACT:

Every day millions of twitter user tweets their views on various topics using short messages of 140 characters length. Tweet classification is a process of classifying the tweets based on the topics using the keywords of the tweets as feature. In this project we are going to classify the tweets into six broad categories. The categories are Sports, Politics, Entertainment, Education, Technology and Business. Supervised learning techniques will be used to classify the messages. The next phase of this project would focus upon the sentimental analysis of the tweets into different categories. The purpose of this analysis is to study the trend of people’s general reactions to various news topics.

INTRODUCTION:

Social networks are the main resources to gather information about people’s opinion and sentiments towards different topics as they spend hours daily on social medias and share their opinion.The advent usage of new online social media such as articles, blogs, message boards, news channels, and in general Web content has dramatically changed the way people look at various things around them. Today, it’s a daily practice for many people to read news online. This is the era of social media and twitter is one of the most popular social media. Everyday millions of tweets are generated. This huge data has introduced new avenues of research works which have both academic and business importance. Twitter message classification and twitter sentiment classification are the two main areas where many researchers are working around the world. Our work is on twitter message classification and then twitter sentiment classification by using comments of that tweet.

TOOLS USED:

* Python
* HTML/CSS
* Javascript
* Node.js
* Various ML Algorithms

OBJECTIVES:

Our objective is to create a Web app that will make use of the Twitter API to get tweets and classify a tweet whether it is related to Sports, Politics, Entertainment, Education, Technology or Business.

In addition to this, we intend to perform sentiment analysis on the comments of a particular tweet in order to know the reactions of people on that particular news which would help us to know whether that tweet for people is positive or negative or neutral.

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