Project Report Twitter Emotion Analysis

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PROBLEM STATEMENT:- Sentimental Analysis:

Although most of us use social media platforms to convey our personal feelings and opinions for the world to see, one of the biggest challenges lies in understanding the sentiments behind social media posts.

Abstract—Social media websites have emerged as one of the platforms to raise users' opinions and influence the way any business is commercialized. Opinion of people matters a lot to analyze how the propagation of information impacts the lives in a large-scale network like Twitter. Sentiment analysis of the tweets determine the polarity and inclination of vast population towards specific topic, item or entity. These days, the applications of such analysis can be easily observed during public elections, movie promotions, brand endorsements and many other fields. In this project, we exploited the fast and in memory computation framework 'Apache Spark' to extract live tweets and perform sentiment analysis. The primary aim is to provide a method for analyzing sentiment score in noisy twitter streams. This paper reports on the design of a sentiment analysis, extracting vast number of tweets. Results classify user's perception via tweets into positive and negative. Secondly, we discuss various techniques to carryout sentiment analysis on twitter data in detail.

SOFTWARE & HARDWARE REQUIREMENTS

SOFTWARE REQUIREMENTS :

- **Operating System: Windows 7/8/10.**
- **Microsoft Visual Studio Code.**

- **Python 3 x IDE**

HARDWARE SPECIFICATIONS :

- **Processor : Intel i3 or above**
- **RAM : 4 GB or more**
- **Hard Disk : 16 GB**

LANGUAGE USED

PYTHON:

SOURCE OF DATA

TWITTER DEVELOPER TOOL

To extract data to analyse the sentiment of it, first of all we need to make a twitter developer account, from there you will get an ID and password as a key which we put in our project to extract the data from twitter.

LIBRARIES USED IN THIS PROJECT

Sentiment analysis is a common NLP task, which involves classifying texts or parts of texts into a pre-defined **sentiment**. You will **use** the Natural Language

Toolkit (NLTK), a commonly **used** NLP **library** in Python, to **analyze** textual data.

WHAT DO WE LEARN FROM THIS PROJECT

- **With the help of this project we are able to check the sentiment of data from social media platforms. How people are talking on any issue, we simply check the polarity of the topic in a positive or negative manner.**