

# **DPM Project Proposal**

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## **Project Title: Twitter data sentiment analysis system**

**Motivation :** In our generation the social media is a place where most people spend large amounts of time, so to get the mood/feeling of the people towards a particular topic it is useful to have a system by using which we can get the sentiment of the masses about topics.

### **Uses of sentiment analysis:**

1. Used in Decision Making for an organisation to analyse the market
2. Brand Reputation Management
3. To find Voice of Voters
4. Used in Online Commerce
5. Can be used in efficient Governance

### **Input:**

- Take the type of topic for analysis( for example movie review analysis,sentiment towards a leader/political party, analysis of the tweets of a famous personality/ personal tweets analysis of a user)
- Take the subject name or user-id
- If we want for compare the input for that(example in case of political sentiment user might interested in finding the comparison of sentiment towards other political party)
  1. Enter the name competitor with which we want to compare.

### **Output**

- Number of people who have positive sentiment/negative sentiment in the form of a bar chart.
- List of most frequent word used in tweet about a topic
- In case of personal tweet analysis we will show the nature of tweets a person does and output the frequent word and sentiment of tweets.

## **Weekly plan:**

Week1(25/Oct-31/Oct): Getting the data from twitter using tweepy api and cleaning that using various text processing techniques(like by using nltk library)

Week 2-3(1/Nov-14/Nov): Making model to process the data and predict the sentiment of the tweets using various ml models, starting making webpage

Week 4(15/Nov-21/Nov):making web page and backend of the webpage

Week 5: Final analysing,hosting and final presentation