

Lovely Professional University  
Jalandhar, Punjab, India.



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*Transforming Education Transforming India*

**INT 404  
PROJECT**

**TV SHOW POPULARITY ANALYSIS**

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Code of the project is available in the following link

**GITHUB LINK:** <https://gist.github.com/thymothy/e6d42f6e8fdff4af082bf8330532e43b>

## **PROJECT DESCRIPTION:**

Through this project we built a system which calculates the polarity and subjectivity of **the corresponding comments from the user and display the polarity.**

For this to be implemented we need polarity calculator like textblob we used nltk classify library.

There are bags of words which is for training and then user input is calculated.

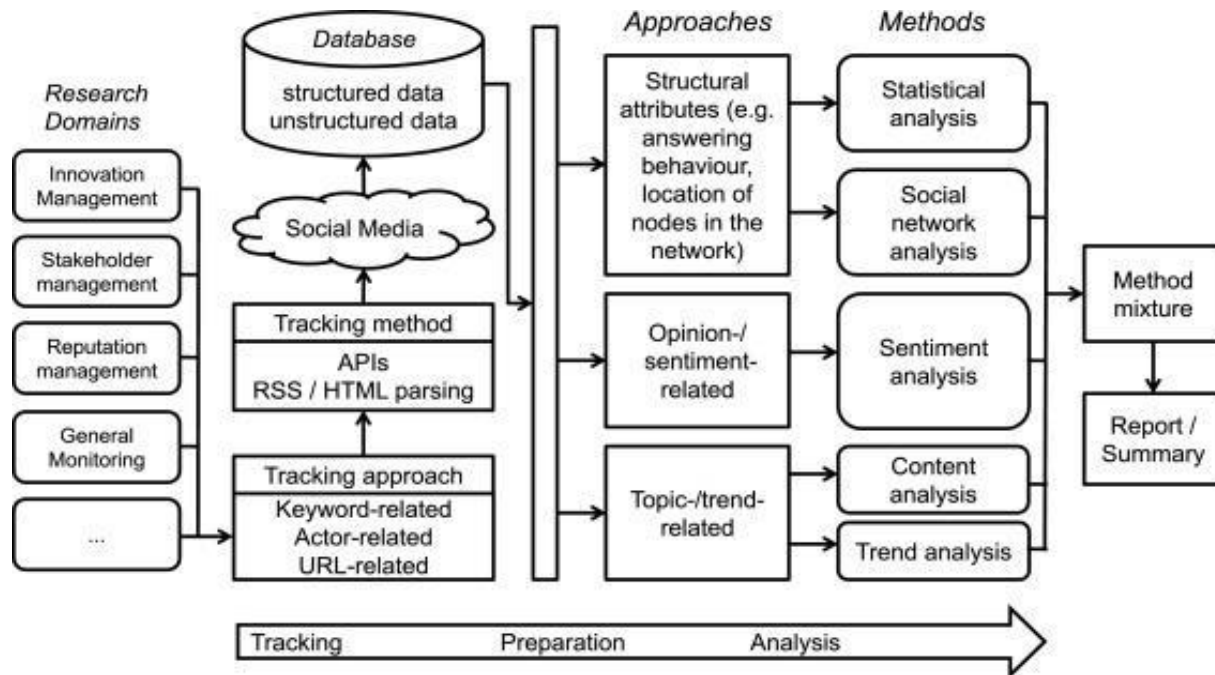
Textblob is used for calculating the polarity of the sentiment.

## **ABSTRACT**

Movie review is most commonly used for huge data. Whenever there are lots of reviews that too in human natural language that it is not possible for any single individual some times group of individuals are also failed to calculate these in order to replace the review analysis with the artificial intelligence we designed the machine learning model for these automation process.

## SENTIMENT ANALYSIS

Sentiment analysis is another primary use case for NLP. Using sentiment analysis, data scientists can assess comments on social media to see how their business's brand is performing, for example, or review notes from customer service teams to identify areas where people want the business to perform better.



## MODULES USED IN THE PROJECT:

### NLTK Classify:

It is used for the training of the model and calculating the polarity also

- We train the model with the set of words.
- And calculate the polarity based on it .

### TEXT BLOB MODULE:

Text Blob is a python library and offers a simple API to access its methods and perform basic NLP tasks.

A good thing about Text Blob is that they are just like python strings. So, you can transform and play with it same like we did in python. Below, I have shown you below some basic tasks. Don't worry about the syntax, it is just to give you an intuition about how much-related Text Blob is to Python strings.

## Sentiment Analysis

Sentiment analysis is basically the process of determining the attitude or the emotion of the writer, i.e., whether it is positive or negative or neutral.

The sentiment function of text blob returns two properties, **polarity**, and **subjectivity**.

Polarity is float which lies in the range of  $[-1,1]$  where 1 means positive statement and -1 means a negative statement. Subjective sentences generally refer to personal opinion, emotion or judgment whereas objective refers to factual information. Subjectivity is also a float which lies in the range of  $[0,1]$ .

### SNAP SHOTS OF THE OUTPUT:

```
[tim@parrot]~$  
$ /bin/python3.7 /home/tim/Downloads/Sentiment-Analysis-IMDb-Movie-Review-master/tr.py  
Enter the movie review : better luck next time  
Positive: 0.2  
Negative: 0.0  
Overall Sentiment is : 0.2  
[tim@parrot]~$
```