

# **Sentimental Analysis**

## **Synopsis**

Department of Computer Engineering & Application

**Institute of Engineering & Technology**



**Submitted To: -**

**Mr.Piyush Vashistha**

**(Assistant Professor)**

**Submitted By: -**

**Akanksha Mishra**

**(181500051)**

**Aman Kumar**

**(181500073)**

# Acknowledgment

It gives us a great sense of pleasure to present the synopsis of the mini project (Sentimental Analysis) undertaken during B.Tech. IIIrd Year, this project itself is going to be an acknowledgement of the inspiration. Drive and technical assistance will be contributed to it by many individuals.

We owe a special debt of gratitude to Mr.Piyush Vashistha (Assistant Professor, Department of CEA) for providing us with an encouraging platform to develop this project which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance is being a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & would also teach us about the latest industry-oriented technologies. We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation.

Akanksha Mishra(181500051)

Aman Kumar(181500073)

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# **Sentimental Analysis**

Sentimental Analysis refers to the use of natural language processing, text analysis to identify and extract subjective information in source materials. Sentimental Analysis aims to determine the attitude of a writer to some topic or the overall contextual polarity of a document.

This system breaks user comments to check for sentimental keywords and predicts user sentiments associated with it. Once the keywords are found, the comments are ranked with sentiment rank. This system also scans documents in order to analyse the sentiments of the user.

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## About the Project

Sentimental Analysis is a study that attempts to identify and analyze emotions and subjective information from text. Sentimental Analysis refers to the application of Natural Language Processing .Computational Linguistics and Text analysis to identify and extract subjective information in source materials.Sentimental Analysis extract attitude of a writer in a document includes writer's judgement and evaluation towards the discussed issue.

### **The main objectives are :**

1. To identify the emotional state of the writer during writing.
2. To identify the intended effects that the author wishes to give the reader.

## **Motivation**

While taking a decision it is very important for us to know the opinion of the people around us. Earlier this group used to be small, with a few trusted friends and family members. But, now with the advent of the Internet we see people expressing their opinions in blogs and forums. These are now actively read by people who seek an opinion about a particular entity(product,movie etc). Thus there is a plethora of opinions available on the Internet.

Recently, certain events, which affected the Government ,have triggered the Internet. The social networks are being used to bring together people so as to organize mass gatherings and oppose oppression. On the darker side, social networks are being used to intimate people against an ethnic group or class of people, which has resulted in a serious loss of life. Thus, there is a need for a Sentiment Analysis system that can identify such phenomena and curtail them if needed.

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## **FUTURE PROSPECTS**

- Today the Internet has an entire gamut of reviews and feedback on almost everything. Thus there is a need for a sentiment engine that can extract sentiments about a particular entity.
- The future might see applications wherein a system gauges the human emotion through sensory means and then creates an environment that helps improve the human life in general.

# Requirements

## A) Hardware Requirements(Minimum):

i3 processor based computer  
4GB RAM  
6 GB Hard Disk Space

## B) Software Requirements(Minimum):

Windows 7  
Python 3.7  
Python Modules

# TECHNOLOGY USED

Machine Learning