**Generic Sentiment Analysis**

**CSCE 5290 - Natural Language Processing**

**Professor - Dr. Sayed Khushal Shah**

**Team Members:**

Vamshi Krishna Sharanammagari

Sai Krishna Reddy Beluri

Abhijit Talluri

Bharath Datta Chary Vadla

**Motivation:**

Usually, when we think of buying a mobile phone, we check many reviews through online websites like amazon. We can't read every review to know what are the positive, negative, and neutral reviews about the product. So, with the help of sentiment analysis, we can extract positive words, negative words, and neutral words. And we can analyze how to choose the best one based on reviews. Similarly, we can find out about the movies based on movie reviews.

**Significance:**

Sentiment analysis is a technique for assessing if a piece of text is good, negative, or neutral. It was essential for figuring out what other people were up to. Sentiment Analysis can reveal what people believe and how they act. A product review on the internet not only aids in analysis, but it also aids in marketing. the client, as well as the sector's personnel, to take the lead decision. This case study demonstrates how Opinion Mining can be used. This makes use of Natural Language Processing. Python is used to create the application. This paper includes the Sentiment. Feelings are divided into three categories: positive, neutral, and negative. It can be either positive or negative depending on the polarity.

**Objectives:**

With this idea, users can easily analyze the reviews and find out which product is suitable for their requirement. The goal is to extract expressions of opinion characterizing a target feature and classify it as positive or negative from a text including numerous features and varying perspectives.

**Features:**

There are three levels of emotion polarity categorization, depending on the breadth of the text: document level, sentence level, and entity and aspect level. Consider the following review: "I enjoy the multimedia functions, but the battery life is terrible." This statement evokes a range of emotions. The emotion is positive when it comes to multimedia, but bad when it comes to battery life. As a result, rather than considering the entire sentence and the general attitude, it is necessary to select only those opinions relevant to a certain feature (such as battery life or multimedia) and categorize them.

**References:**

1. [Sentiment Analysis-An Objective View | J4R - Journal for Research - Academia.edu](https://www.academia.edu/25824227/Sentiment_Analysis_An_Objective_View)
2. [IRJET-V6I9188.pdf](https://www.irjet.net/archives/V6/i9/IRJET-V6I9188.pdf)

**GitHub Link:**