Title: Sentiment Analysis of Twitter Data: Exploring People's Opinions on Various Topics

Abstract:

This project aims to conduct sentiment analysis of Twitter data to explore people's opinions on different topics. Twitter has become a significant platform for people to express their reactions and opinions on various events and topics. The study employs the Twitter API and Tweepy module of Python to extract tweets from the platform. The extracted data is then converted into CSV format and subjected to standard preprocessing techniques and using NumPy and Pandas are used to clean the data. Natural language processing techniques are employed to perform sentiment analysis and determine the average sentiment scores of the tweets.

The analysis of the data helps in predicting the people's opinions about a particular topic, event or scheme and classifying the same as positive or negative. The study is significant in understanding the public's perception of a particular issue, which can aid in decision-making for governments and organizations.

Keywords: sentiment analysis, Twitter data, natural language processing, public perception, decision-making.