MINI PROJECT-I
(2020-21)

SENTIMENTAL ANALYSIS

SYNOPSIS

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INTRODUCTION

We live in a society where the textual data on the Internet is growing at a rapid pace and many companies are trying to use this deluge of data to extract people's views towards their products. A great source of unstructured text information is included in social networks, where it is unfeasible to manually analyze such amounts of data.We can use Sentiment Analysis in this case.This is project of analysing emotions in tweets on Twitter in which various tweets is analysed and we are getting result of that person's emotion in that particular tweet.This project of analyzing sentiments of tweets comes under the domain of "Pattern Classification" and "Data Mining". Both of these terms are very closely related and intertwined, and they can be formally defined as the process of discovering "useful" patterns in large set of data. The project would heavily rely on techniques of "Natural Language Processing" in extracting significant patterns and features from the large data set of tweets and on "Machine Learning" techniques for accurately classifying individual unlabelled data samples (tweets) according to whichever pattern model best describes them.

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EXISTING SYSTEM

Current sentiment analysis methods typically focus on the polarity of Positive/Negative emotions. Sometimes neutral emotions can be detected in between. Human emotions are far beyond these simple metrics and are much more diverse. This implies that such polarity analysis gives only limited information on the actual intent of the author of the message

USE OF THE PROJECT

Sentiment analysis has many applications in various industries. As it helps in understanding public opinion, companies use sentiment analysis in doing market research and figuring out if their customers like a particular product (or service) or no

IDEA

Sentiment analysis is a type of data mining where you measure the inclination of individuals's opinions through the use of NLP (natural language processing), text analysis, and computational linguistics. We carry out sentiment analysis totally on public reviews, social media platforms, and similar sites. Following are the primary forms of sentiment analysis:

Software Specification:

Technology Implemented:

   1. NLP (Natural Language Processing)

Language Used:
  1. Python3

Environment:

  1. Pycharm.

  2. Jupyter.

Hardware Requirements:

- Processor   : intel i5
- Operating System   : Windows 10
- RAM   : 8GB
- Hardware Devices   : Computer System
- Hard disk   : 256 GB

FUTURE SCOPE

- Lexical Resources have been developed to capture sentiment-related nature

- Subjective extracts provide a better accuracy of sentiment prediction

- Several approaches use algorithms like Naïve Bayes, clustering, etc. to perform sentiment analysis

The cognitive angle to Sentiment Analysis can be explored in the future