

Analyzing Social Trends on Recession conditions

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ABSTRACT

Social Media platforms are widely used for transmitting data in different formats. We can generate a lot of information on recent trends. Additionally, public opinions can be used to predict forthcoming events. We are collecting data from two social networking sites, Twitter and Reddit. We are also using News Articles as another data source. Twitter is a public social networking domain and Reddit is a community-based social media platform. The primary aim of this project is to analyze the social media-associated data which predicts the conditions which lead to the Recession over time. Secondly, for the third dataset, we evaluated the news article which contains the topic of recession and economic crisis—techniques to understand the data in a better context. We have used data visualization techniques based on sentiment analysis, keyword analysis, and word length.

1. RESEARCH QUESTIONS

The primary objective of the project phase is to describe the influence of the recession and economic conditions based on public opinions and newspaper data. The research question for the project is as follows-

- a. How do public opinion and sources of information (newspapers) associated with each other for recession topics?
- b. How does the sentimental analysis score change for the recession conditions over time?

2. METHODOLOGY

We are going to use the Flask framework to build the web-based dashboard [1]. To fulfill the requirements for the first research question, we will use word frequency analysis (keyword analysis). In Project 2, we have going

used Wordcloud [2], Seaborn [3], and Matplotlib libraries for the keyword analysis [4]. Additionally, for the second research question, we will use the Textblob library to perform sentimental analysis on the Twitter, Reddit, and New York Times data [5]. We will use the date as a filter for the analysis of the different parameters.

References

- [1] Flask Library Documentation.
<https://flask.palletsprojects.com/>
- [2] WordCloud Library Documentation.
<https://pypi.org/project/wordcloud>
- [3] Seaborn Library Documentation.
<https://seaborn.pydata.org/>
- [4] Matplotlib Library Documentation
<https://matplotlib.org/>
- [5] Textblob Library Documentation.
<https://textblob.readthedocs.io/en/dev/>