

Final Project Assignment: Sentiment Analysis using the Reddit API

Objective:

Your final project involves conducting sentiment analysis using the Reddit API to answer a research question of your choice. You will need to submit your research question along with the types of graphs you plan to use for visualizing your findings.

Assignment Tasks:

1. Formulate Your Research Question:

Develop a clear and concise research question that you aim to answer through sentiment analysis of Reddit data. Example questions:

- What is the public sentiment towards a new product launch?
- How do people feel about a recent political event?
- What are the general sentiments during a major sports event?
- How do sentiments change over time for a trending topic?
- What are the sentiments of users in different geographic locations about a specific topic?

2. Identify Your Data Collection Plan:

Briefly describe how you plan to collect the necessary data using the Reddit API. Mention any specific subreddits, keywords, or threads you will focus on in your data collection.

3. Select Your Graphs:

List and describe the types of graphs you intend to create to visualize your findings.

Recommended Graphs:

- Sentiment Over Time: Displaying the change in sentiment over time.
- Sentiment Intensity: Showing the intensity of positive or negative sentiments.
- Volume of Posts: Representing the volume of posts related to your topic.

Additional graph of your choice, such as:

- Word clouds of positive and negative sentiments.
- Geographic distribution of sentiments.
- Comparative sentiment analysis across different time periods or subreddits.

Submission Details:

Format: Submit your research question and the list of graphs in a single document.

Submission Method: Upload the PDF document to your GitHub repo and send me an email with the link.

Additional Resources:

- Reddit API Documentation: <https://www.reddit.com/dev/api/>
- Python : <https://docs.python.org/3/library/index.html>
- PRAW: <https://praw.readthedocs.io/en/stable/>
- Redditwarp: <https://github.com/Pyprohly/redditwarp?tab=readme-ov-file>