Israel Palestine War Sentiment Analysis

Under Mentorness Internship Program

Abstract:

This project focuses on applying Natural Language Processing (NLP) techniques to analyze and understand the sentiment and impact of textual data related to the current Israel-Palestine conflict. The project leverages advanced NLP methods to process comments from the online platform Rediff, specifically analyzing the sentiment and context of these comments in the context of the ongoing conflict. By categorizing comments as positive, negative, or neutral and exploring the relationship between sentiment and the conflict's developments, this project aims to gain insights into public sentiment and opinions regarding the Israel-Palestine conflict.

Problem Statement:

The Israel-Palestine conflict is a highly complex and contentious issue that has global implications. Public sentiment and opinions regarding this conflict are crucial to understanding the dynamics and potential outcomes. The key challenges and questions addressed by this project include:

• How can NLP techniques be applied to analyze comments from Rediff related to the Israel-Palestine conflict?

• Can we accurately classify the sentiment of comments as positive, negative, or neutral to gauge public sentiment?

• What are the prevailing sentiments in the comments, and how do they correlate with significant events in the conflict?

• Is it possible to identify trends or patterns in public sentiment over time, and can these insights inform our understanding of the conflict?

Dataset Information:

The dataset for this project consists of comments from the online platform Rediff related to the Israel-Palestine conflict. It includes information such as comment ID, score (indicating popularity or agreement with the comment), the comment text itself, subreddit (if applicable), and the comment's creation time. This dataset is valuable for sentiment analysis and understanding public opinion about the ongoing conflict.

Variable Description:

The dataset contains the following variables:

• Comment ID: A unique identifier for each comment.

• Score: The score or popularity of the comment within the platform.

• Comment Text: The textual content of the comment.

• Subreddit: The subreddit (if available) to which the comment belongs.

• Created Time: The timestamp indicating when the comment was posted.

Scope:

This project's scope encompasses several critical components:

• Data Preprocessing: Cleaning and preparing the textual data from Rediff comments for sentiment analysis.

• Sentiment Analysis Models: Developing NLP models for classifying comment sentiment as positive, negative, or neutral.

• Contextual Analysis: Understanding the context and content of comments to explore themes and insights related to the Israel-Palestine conflict.

• Sentiment Trends: Analyzing sentiment trends over time to identify patterns and correlations with significant events.

Learning Outcome:

By participating in this project, individuals will gain valuable skills and knowledge, including:

• NLP Techniques: Learning the fundamentals of natural language processing and how to apply them to analyze real-world text data.

• Sentiment Analysis: Acquiring the ability to perform sentiment analysis on comments to gauge public sentiment.

• Conflict Understanding: Gaining insights into public opinions and sentiment regarding the Israel-Palestine conflict.

• Data Analysis: Developing skills in data analysis, visualization, and trend identification using NLP tools.

• Real-world Application: Applying NLP techniques to gain insights into complex, real-world issues and public opinions.

This project offers a unique opportunity to explore the application of NLP in understanding public sentiment surrounding a highly relevant and sensitive global issue, the Israel-Palestine conflict, which has significant implications for various stakeholders and the broader international community.