**Abstract:**

This project utilizes the Twitter API to gather tweets related to the death of Queen Elizabeth II, specifically focusing on emotions expressed by the public using sentiment analysis. The sentiment analysis is conducted using TextBlob, a Python library for natural language processing tasks. The goal is to analyze the sentiment of tweets and categorize them as positive, negative, or neutral to understand the public's emotional response to this event.

**Introduction:**

The passing of Queen Elizabeth II on September 8, 2022, marked a significant event globally, especially within the British Monarchy. Social media platforms, particularly Twitter, became a hub for discussions, emotions, and reactions to this news. Understanding the sentiment expressed in tweets can provide valuable insights into public perception and emotional responses during such moments.

**Problem Statement:**

The primary objective of this project is to collect tweets related to Queen Elizabeth II's death, analyze the sentiment of these tweets, and categorize them into positive, negative, or neutral sentiments. This analysis aims to undestand the public's emotional response and sentiment regarding this event, offering a glimpse into the collective sentiment on social media.

**Methodology:**

**Twitter API Data Collection:**

Tweepy, a Python library for accessing the Twitter API, is used to fetch tweets.

The search query "Queen Elizabeth II death" is used to gather relevant tweets.

The number of tweets fetched is set to 10 for this analysis.

**Sentiment Analysis:**

TextBlob, a natural language processing library, is employed for sentiment analysis.

The sentiment of each tweet is analyzed for polarity, categorizing tweets as positive, negative, or neutral based on their sentiment scores.

Positive, negative, and neutral percentages are calculated to quantify the sentiment distribution among the collected tweets.

**Conclusion:**

The sentiment analysis conducted on tweets related to Queen Elizabeth II's death reveals valuable insights into public sentiment and emotional responses. The distribution of positive, negative, and neutral sentiments provides a nuanced understanding of how individuals on Twitter perceive and react to significant events, highlighting the diverse range of emotions expressed in social media discussions.

**Note:** Due to limited access to the Twitter API endpoints, the program encountered an error (453 - You currently have access to a subset of Twitter API v2 endpoints and limited v1.1 endpoints) and was unable to fetch tweet details. The error message suggests that a different access level may be required to access the endpoint. As a result, no tweet data was received for analysis.