# **Quotes Analysis Tool**

This Python script is designed to analyze a TSV file containing quotes from various authors. It provides several features for analyzing and extracting information from the dataset.

## **Getting Started**

These instructions will help you run the script and utilize its features.

#### **Prerequisites**

- Python 3.x
- Pandas (for data handling)
- NLTK (Natural Language Toolkit, for text processing)
- TSV file containing quotes (e.g., quotes.tsv)

You can install the required Python packages using the following commands:

pip install pandas pip install nltk

Before running the script, you'll need to download additional NLTK resources. Open a Python interactive session or a Python script and run the following commands:

import nltk

# Download the 'punkt' tokenizer models (used for text tokenization). nltk.download('punkt')

# Download the 'stopwords' corpus (common English stopwords for text processing). nltk.download('stopwords')

## **Running the Script**

- 1. Place your TSV file containing quotes (e.g., quotes.tsv) in the same directory as the Python script.
- 2. Open a terminal or command prompt.
- 3. Navigate to the directory containing the Python script and your TSV file.
- 4. Run the script by entering the following command:

python quotes\_analysis.py

Replace `quotes\_analysis.py` with the name of your Python script if it's different.

# **Functionality**

- 1. Count Quotes by Author:
- Enter the author's name to find out how many quotes they have in the dataset.
- 2. Longest Quote:
- Find the author with the longest quote and display the quote itself.
- 3. Authors with a Specific Word:
- Search for a specific word and discover which authors have quotes containing that word.
- 4. Word Frequency Analysis:
- Analyze the most and least frequent words used in all the quotes.

#### **Customization**

You can customize the script by editing the `quotes\_analysis.py` file. Each feature has its own function and can be modified to suit your specific requirements.

### <u>Acknowledgments</u>

- The script uses the Pandas library for data handling and NLTK for text processing.