A02

May 9, 2025

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[1]: # Question:
    # How do different Wikipedia articles compare in sentiment?
[2]: import requests
    import re
    from bs4 import BeautifulSoup
    from collections import Counter
[3]: # Some common words of sentiment
    very_positive_words = [
        'best', 'fantastic', 'excellent', 'amazing', 'awesome', 'perfect', |
     'superb', 'magnificent', 'wonderful', 'marvelous', 'extraordinary',
     'phenomenal', 'incredible', 'sensational', 'fabulous', 'astonishing',
        'breathtaking', 'spectacular', 'flawless', 'impressive', 'champion', 'loved'
    ]
    positive_words = [
        'happy', 'good', 'joy', 'nice', 'pleasant', 'cheerful', 'highest', |
     ⇔'popular', 'first',
        'delightful', 'content', 'satisfied', 'positive', 'optimistic', 'fast', u
     'success', 'professional', 'encouraging', 'bright', 'enjoyable', u
     'great', 'top', 'useful', 'renowned', 'favorable', 'agreeable', 'pleasing',
        'record', 'most', 'won', 'win', 'easy', 'creative'
    ]
    negative_words = [
        'bad', 'sad', 'unhappy', 'poor', 'negative', 'unpleasant', 'last',
     'disappointing', 'depressing', 'gloomy', 'unfortunate', 'upset', u
     'miserable', 'dismal', 'terrible', 'dejected', 'discouraging', 'slow', [
     'hopeless', 'regretful', 'painful', 'least', 'lost', 'lose', 'trouble',
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'bottom', 'lawsuit', 'lazy', 'damage', 'prison', 'jail', 'death', 'dead'
]
very_negative_words = [
    'worst', 'terrible', 'horrible', 'awful', 'dreadful', 'disastrous', "
 'appalling', 'abysmal', 'shocking', 'atrocious', 'ghastly', 'hideous',
    'dreaded', 'dire', 'frightful', 'nightmarish', 'gruesome', 'heinous',
    'monstrous', 'vile', 'slowest', 'hated', 'abuse', 'assault', 'harassment'
]
# Function to fetch the content of a Wikipedia page
def get_wikipedia_content(url):
   response = requests.get(url)
   soup = BeautifulSoup(response.text, 'html.parser')
   paragraphs = soup.find_all('p')
# Cleans and combines data into a string and converts it to lowercase
    content = ' '.join([para.get_text() for para in paragraphs])
   return content.lower()
# Function to calculate the sentiment score
def sentiment_score(text):
   very_positive_count = sum(1 for word in very_positive_words if word in text)
   positive_count = sum(1 for word in positive_words if word in text)
   negative_count = sum(1 for word in negative_words if word in text)
   very_negative_count = sum(1 for word in very_negative_words if word in text)
# Calculates score with different weights
    score = (1.5 * very_positive_count + positive_count) - (1.5 *_\preceq
 overy_negative_count + negative_count)
   return score
# Main function to analyze the sentiment of two Wikipedia pages
def analyze_sentiment(url1, url2):
   content1 = get_wikipedia_content(url1)
    content2 = get_wikipedia_content(url2)
   score1 = sentiment_score(content1)
   score2 = sentiment_score(content2)
   print(f"Sentiment score for URL 1: {score1}")
   print(f"Sentiment score for URL 2: {score2}")
# URLs of the Wikipedia pages
url1 = 'https://en.wikipedia.org/wiki/Al_Capone'
url2 = 'https://en.wikipedia.org/wiki/Abraham_Lincoln'
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# Run the analysis
if __name__ == "__main__":
    analyze_sentiment(url1, url2)
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Sentiment score for URL 1: -5.5 Sentiment score for URL 2: 4.0

[]: # Conclusion

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Wikipedia pages of generally well-liked people such as Abraham Lincoln and \hookrightarrow Lionel are

on criminals such as Al Capone or Sean Diddy who both get negative scores. """