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from googleapiclient.discovery import build
from googleapiclient.errors import HttpError
import json
import nltk
from nltk.tokenize import sent_tokenize, word_tokenize
from nltk.corpus import stopwords
from collections import Counter
import re
import matplotlib.pyplot as plt
from wordcloud import WordCloud
nltk.download('punkt')
nltk.download('stopwords')

def ytb_cnl_url(channel_id):
    api_key = ''
    youtube = build('youtube', 'v3', developerKey=api_key)
    video_urls = []

    try:
        request = youtube.channels().list(
            part='contentDetails',
            id=channel_id
        )
        response = request.execute()

        if 'items' not in response or not response['items']:
            print("No channel found or no items in response.")
            return []

        playlist_id = response['items'][0]['contentDetails']['relatedPlaylists']['uploads']

        videos = []
        next_page_token = None
        while True:
            playlist_items_response = youtube.playlistItems().list(
                part='snippet',
                playlistId=playlist_id,
                maxResults=50,
                pageToken=next_page_token
            ).execute()

            videos += playlist_items_response['items']
            next_page_token = playlist_items_response.get('nextPageToken')

            if not next_page_token:
                break

        for video in videos:
            video_urls.append({
                'URL': f"https://www.youtube.com/watch?v={video['snippet']['resourceId']['videoId']}",
                'Title': video['snippet']['title']
            })

    except HttpError as e:
        print(f"An HTTP error {e.resp.status} occurred:\n{e.content}")

    return video_urls

def get_Comment_For_url(video_urls):
    api_key = 'AIzaSyALNz0qVyvFUlMiX8Md-fTyR8NBp6IiFZU'
    comment_text = []
    youtube = build('youtube', 'v3', developerKey=api_key)

    for video in video_urls:
        video_id = video['URL'].split('v=')[1]
        request = youtube.commentThreads().list(part="snippet", videoId=video_id, textFormat="plainText")

        try:
            response = request.execute()

            for item in response['items']:
                comment = item['snippet']['topLevelComment']['snippet']['textDisplay']
                comment_text.append(comment)

        except HttpError as e:
            error_content = json.loads(e.content.decode('utf-8'))
            error_reason = error_content.get('error', {}).get('errors', [{}])[0].get('reason')

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        if error_reason == "commentsDisabled":
            print(f"Comments are disabled for the video with ID {video_id}. Skipping...")
        else:
            print(f"An HTTP error {e.resp.status} occurred for video ID {video_id}:\n{e.content.decode('utf-8')}")

    return comment_text

def clean_comments(comment_text):
    nltk.download('punkt')
    nltk.download('stopwords')

    stop_words = set(stopwords.words('english'))
    cleaned_words = []

    for sentence in comment_text:
        tokenized_words = word_tokenize(sentence)
        cleaned_words.extend([word for word in tokenized_words if word.lower() not in stop_words and word.isalpha()])

    return cleaned_words

def wordFrequency(cleaned_words):
    word_counts = Counter(cleaned_words)
    return word_counts

def barWordcloudFrequency(word_counts) :
    wordcloud = WordCloud(width=800, height=400, background_color='white').generate_from_frequencies(word_counts)
    plt.figure(figsize=(10, 6))
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.axis('off')
    plt.title('Word Cloud')
    plt.show()
    plt.figure(figsize=(10, 6))
    plt.bar(list(word_counts.keys()), list(word_counts.values()))
    plt.xlabel('Words')
    plt.ylabel('Frequency')
    plt.title('Word Frequencies')
    plt.xticks(rotation=45)
    plt.show()

video_urls = ytb_cnl_url( "UCcgVECVN4OKV6DH1jLkqmcA")
comments = get_Comment_For_url(video_urls)
words_ = clean_comments(comments)
frequency = wordFrequency(words_)
print(barWordcloudFrequency(frequency))
print(words_)

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