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Aim: Data Collection-Select the social media platforms of your choice (Twitter, Facebook,
LinkedIn, Youtube,Web blogs etc), connect to and capture social media data for business (
scraping, crawling, parsing)
import requests
import pandas as pd
video_id = "iX-U9HLRnuk"
api_key = "AlzaSyDL2_rH__2JrGPYAN71ryuO9fG3WxXyT04"
# Get video info (optional)
video info url =
f"https://www.googleapis.com/youtube/v3/videos?part=snippet&id={video_id}&key={api_key}"
video_info_response = requests.get(video_info_url)
video_info_data = video_info_response.json()
# Get comments (first page only)
comments url =
f"https://www.googleapis.com/youtube/v3/commentThreads?part=snippet&videoId={video_id}&key={api_key
comments response = requests.get(comments url)
comments_data = comments_response.json()
# Extract comments
comments = [
  item["snippet"]["topLevelComment"]["snippet"]["textOriginal"]
  for item in comments_data.get("items", [])
]
# Simple rule-based sentiment function
def simple sentiment(comment):
  positive_words = ["good", "great", "awesome", "nice", "love", "excellent", "best", "amazing"]
  negative_words = ["bad", "worst", "awful", "terrible", "boring", "hate", "poor", "dislike"]
  comment_lower = comment.lower()
  if any(word in comment lower for word in positive words):
    return "Positive"
  elif any(word in comment lower for word in negative words):
    return "Negative"
  else:
    return "Neutral"
# Analyze all comments
comment_list = []
sentiment_list = []
for comment in comments:
  sentiment = simple_sentiment(comment)
  comment list.append(comment)
  sentiment_list.append(sentiment)
  print(f"{comment} : {sentiment}")
# Save to DataFrame
sentiment df = pd.DataFrame({
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"Comments": comment_list,
"Sentiment": sentiment_list
})

# Display the results
print("\nSentiment DataFrame:")
print(sentiment_df.head())
```