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SMA EXPERIMENT NO : 02

## YOUTUBE

```
from googleapiclient.discovery import build

# =====
# ADD YOUR YOUTUBE API KEY
# =====
YOUTUBE_API_KEY = "AIzaSyDFZViTcfxxjFMr67zLyr82Z7ylElnipKg"

# =====
# USER INPUT
# =====
keyword = input("Enter topic to search on YouTube: ")
limit = int(input("How many videos do you want? (Max 50): "))

if limit > 50:
    print("⚠ Max limit is 50. Setting results to 50.")
    limit = 50

# =====
# BUILD YOUTUBE CLIENT
# =====
yt = build(
    serviceName="youtube",
    version="v3",
    developerKey=YOUTUBE_API_KEY
)

# =====
# SEARCH REQUEST
# =====
search_data = yt.search().list(
    q=keyword,
    part="snippet",
    type="video",
    maxResults=limit
).execute()

video_id_list = []

print("\n🎥 YOUTUBE SEARCH OUTPUT\n")

for index, video in enumerate(search_data["items"], start=1):
    snippet = video["snippet"]
    vid_id = video["id"]["videoId"]

    video_id_list.append(vid_id)

    print(f"{index}. {snippet['title']}")
    print(f"  Channel: {snippet['channelTitle']}")
    print(f"  Date: {snippet['publishedAt']}")
    print(f"  Video ID: {vid_id}")
    print("-" * 60)

# =====
# FETCH VIDEO METRICS
# =====
video_stats = yt.videos().list(
    part="statistics",
    id=", ".join(video_id_list)
).execute()

print("\n📊 VIDEO PERFORMANCE DETAILS\n")

for data in video_stats["items"]:
    stats = data["statistics"]

    print(f"Video ID: {data['id']}")
    print(f"Views : {stats.get('viewCount', 'N/A')}")
    print(f"Likes : {stats.get('likeCount', 'N/A')}")
    print(f"Comments: {stats.get('commentCount', 'N/A')}")
    print("=" * 60)
```

Enter topic to search on YouTube: DATA ANALYSIS  
How many videos do you want? (Max 50): 5

 YOUTUBE SEARCH OUTPUT

1. What Is Data Analytics? - An Introduction (Full Guide)  
Channel: CareerFoundry  
Date: 2021-03-25T13:13:45Z  
Video ID: yZvFH7B6gKI
2. Excel for Data Analytics - Full Course for Beginners  
Channel: Luke Barousse  
Date: 2024-10-14T12:01:06Z  
Video ID: pCJ15nGFgVg
3. Stop Learning Everything! Do This Instead in Data Analytics  
Channel: Tina Okonkwo  
Date: 2025-04-13T09:16:47Z  
Video ID: tqmExNhqGxw
4. A Beginners Guide To The Data Analysis Process  
Channel: CareerFoundry  
Date: 2021-09-30T10:00:32Z  
Video ID: lgCNTuLBMK4
5. Introduction to Data Analysis with Excel: 2-Hour Training Tutorial  
Channel: Simon Sez IT  
Date: 2023-03-07T16:00:09Z  
Video ID: kghcAk7l6eA

 VIDEO PERFORMANCE DETAILS

Video ID: yZvFH7B6gKI  
Views : 1996957  
Likes : 47145  
Comments: 916  
=====

Video ID: pCJ15nGFgVg  
Views : 2031448  
Likes : 52169  
Comments: 2632  
=====

Video ID: tqmExNhqGxw  
Views : 5079  
Likes : 451  
Comments: 20  
=====

Video ID: lgCNTuLBMK4  
Views : 984745  
Likes : 17392  
Comments: 194  
=====

Video ID: kghcAk7l6eA  
Views : 723719  
Likes : 12261  
Comments: 291  
=====

Start coding or generate with AI.

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