



- 1. To understand what content the audience truly enjoys.
- 2. To improve channel's performance with data-backed decisions.
- 3. To identify the best months, video types, and topics for growth.
- 4. Turning casual viewers into loyal subscribers by optimizing content strategy.

## CHANNEL STATISTICS

This function collected details of the YouTube channel:

- 1. Channel Name
- 2. Subscriber Count
- 3. Total Views
- 4. Video Count
- 5. Playlist ID for uploaded videos



#### Function to get channel statistics

```
[3]: def get channel stats(youtube, channel id):
          request= youtube.channels().list(
             part= 'snippet, contentDetails, statistics',
             id= channel id)
          response = request.execute()
          data= dict(Channel_name= response['items'][0]['snippet']['title'],
                    Subscriber= response['items'][0]['statistics']['subscriberCount'],
                    Views= response['items'][0]['statistics']['viewCount'],
                    Total videos= response['items'][0]['statistics']['videoCount'],
                    playlist_id= response['items'][0]['contentDetails']['relatedPlaylists']['uploads'])
          return data
     channel_stat=get_channel_stats(youtube, channel_id)
     channel stat
[5]: {'Channel_name': "Pallabi's makeover and vlog",
       'Subscriber': '204',
       'Views': '78701',
       'Total videos': '228',
       'playlist id': 'UUAbXDrX513AWHuEpfNYDTpw'}
      channel data= pd.DataFrame([channel stat])
```

## VIDEO DETAILS

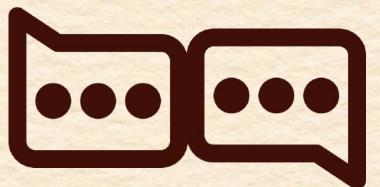
```
def get_video_ids(youtube, playlist_id):
    request= youtube.playlistItems().list(
        part= 'contentDetails',
        playlistId= playlist_id,
        maxResults=50)
    response= request.execute()
    video_ids= []
    for i in range(len(response['items'])):
        video_ids.append(response['items'][i]['contentDetails']['videoId'])
    nextpage_token= response.get('nextPageToken')
    more pages= True
    while more pages:
        if nextpage_token is None:
            more pages= False
        else:
            request= youtube.playlistItems().list(
                        part= 'contentDetails',
                        playlistId= playlist_id,
                        maxResults=50,
                        pageToken= nextpage token)
            response= request.execute()
            for i in range(len(response['items'])):
                video_ids.append(response['items'][i]['contentDetails']['videoId'])
            nextpage_token= response.get('nextPageToken')
```



This function collected details of videos:

1. Pulled out all video IDs from the channel's upload playlist

2. Retrieved title, publish date, view count, like count, and comment count



video\_\_\_\_t\_video\_ids(youtube, playlist\_id)

return video\_ids

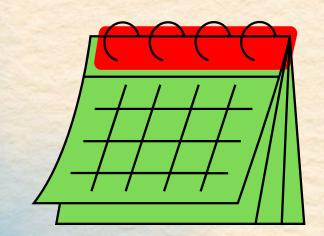
### CLEANING AND TRANSFORMING THE DATA

- Ensures correct formats for plotting and analysis
- Converts date and numeric fields

```
1. video_data['Published_date'] = pd.to_datetime(video_data['Published_date']).dt.date
```

```
2. video_data['Views'] = pd.to_numeric(video_data['Views'deo_entrological video_ids):
```

- 3. video\_data['Likes'] = pd.to\_numeric(video\_data['Likes'= youtube.videos().list() part= "snippet, statistics", id= 12 Nain(video ids[i]) id= 12 Nai
- 4. video\_data['Comment'] = pd.to\_numeric(video\_data['Commenter]) oin(video\_ids[i:i+50]))



for video in response['items']:

# THE INSIGHTS &

#### Channel Overview:

- 1. Total videos: 228, Subscribers: 204, Total Views: 79K
- 2. Active for 12 months, with consistent posting

#### Performance Highlights:

- 3. July 2022 was the best-performing month:
- 4. Highest viewed video: 11,277 views
- 5. Most liked video: 330 likes
- 6. August 2022 also saw high viewership but less engagement.





#### Uncovering Youtube Channel Trends: Client Project

Channel Name: Pollobi's mokeover

Channel Language: Bilingual

**Channel Category: Daily Vlogs** 

Channel Origin: India



228
Total Videos

79K

1991

.....

Select all

Monthly Analysis

12

Active Months

4
Average Engagement Rate

3 Average Likes Per Video 61

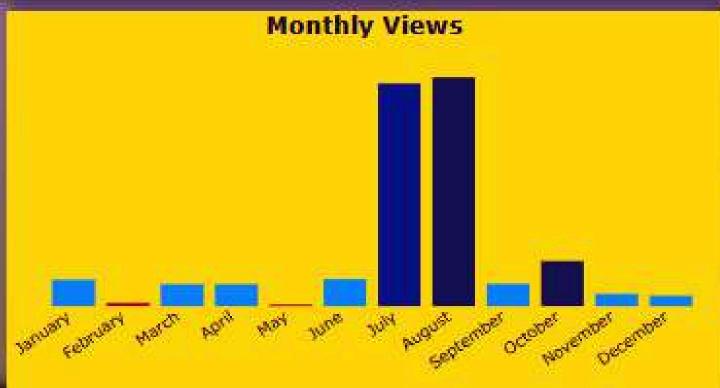
April

August

December

February







 Average Likes per Video: 3, Average Engagements per Day: 4

 Highest engagement from YouTube Shorts, particularly food reviews.

#### Trending Video Type:

- "Worst Biryani Review" short had the highest engagement rate
- Latest dance short (April 2025): 1.5K views, 6 likes



#### Uncovering Youtube Channel Trends: Client Project

Channel Name: Pallabi's makeover

Channel Language: Bilingual

Channel Category: Daily Vlogs

**Channel Origin: India** 

Most Liked Video	Year	Month	Like Count
#shorts	2022	July	330
#shorts #youtubeshorts	2022	July	197
Amazing experiments #sciencefacts #scienceexperiment	2022	July	97
#shorts #ytshorts #ashortaday	2022	August	95
#shorts	2022	August	79
জন্মদিনের স্পেশাল লাংঃ মেনু⊕ 😋 🤮 🕊 #shorts #food #ytshorts #ashortaday #lunch #youtubeshorts	2022	August	64
Girls during puja fast	2022	August	59

Top Viewed Video	Year	Month	View Count
#shorts	2022	July	11277
#shorts #youtubeshorts	2022	July	7383
#shorts	2022	August	3172
Girls during puja fast	2022	August	2665
যেই দেশে ছেলে মা বাবাকে কুপিয়ে খুন করছে সেখানে বৃদ্ধাশ্রম দরকার #shorts	2022	August	2611
Amazing experiments #sciencefacts #scienceexperiment	2022	July	2395
#shorts #ytshorts #ashortaday	2022	August	2244
			0046

Most Engaged Video	Eng Rate	Category
My beautiful day Food review of worst biriyani 😉 😉   #bengalivlog #dailyvlog	20.00	Others
vlog Unboxing makeup #vlog @Pallabi's makeover and Blog	16.00	MakeUp
My vlog Baba recover korche  bengali vlog #vlog	15.62	Others
**Durga Puja** shopping day1 🔾 😌 😍    3 days ka vlog ek sath    Main fut fut kar royi	15.38	Others
Another day in my life  **Babu marlo** Bristi te vije gelam #dailyvlog	15.00	Others

Category	Total Eng Rate
Others	397.41
Shorts	377.54
MakeUp	115.27
Food	4.90
Category	Comment Count
Category Others	Comment Count 34
٠,	▼
Others	34
Others Shorts	34 15

Recent Video	Year ▼	Month
#dance	2025	April
Ai bahar dil ~ #youtubeshorts #dance	2025	April
I am a Disco Dancer #dance #youtubeshorts	2025	April
বাস্তব জীবনে যখন সিরিয়ালের মিউজিক চলে ~ #shorts #youtubeshorts #funny	2025	April
#lunch	2023	March
#sundayspeciallunch #shorts	2023	April
1st january 2023 special vlog   New year special vlog   year starting fun 😵	2023	January





## RECOMMENDATIONS

- 1. Focus more on YouTube Shorts, especially food-related or humorous themes.
- 2. Recreate or experiment around the 'Worst Biryani' food review format.
- 3. Leverage high-engagement periods like July and August for future uploads.
- 4. Optimize video titles & thumbnails with SEO-rich keywords like: "funny food review", "cheap eats vlog", "viral dance short"
- 5. Engage more with audience through polls, pinned comments, and call-to-actions in videos.

## WHAT'S NEXT



- 1. Create a content calendar focused on proven-performing formats (i.e., Shorts)
- 2. Try collaboration videos with other micro creators for cross-promotion.
- 3. Explore analytics weekly to track likes, views, and comments—simplify it using Power BI or Google Sheets.
- 4. Gradually increase long-form content to build loyal subscribers once Shorts drive more traffic.

