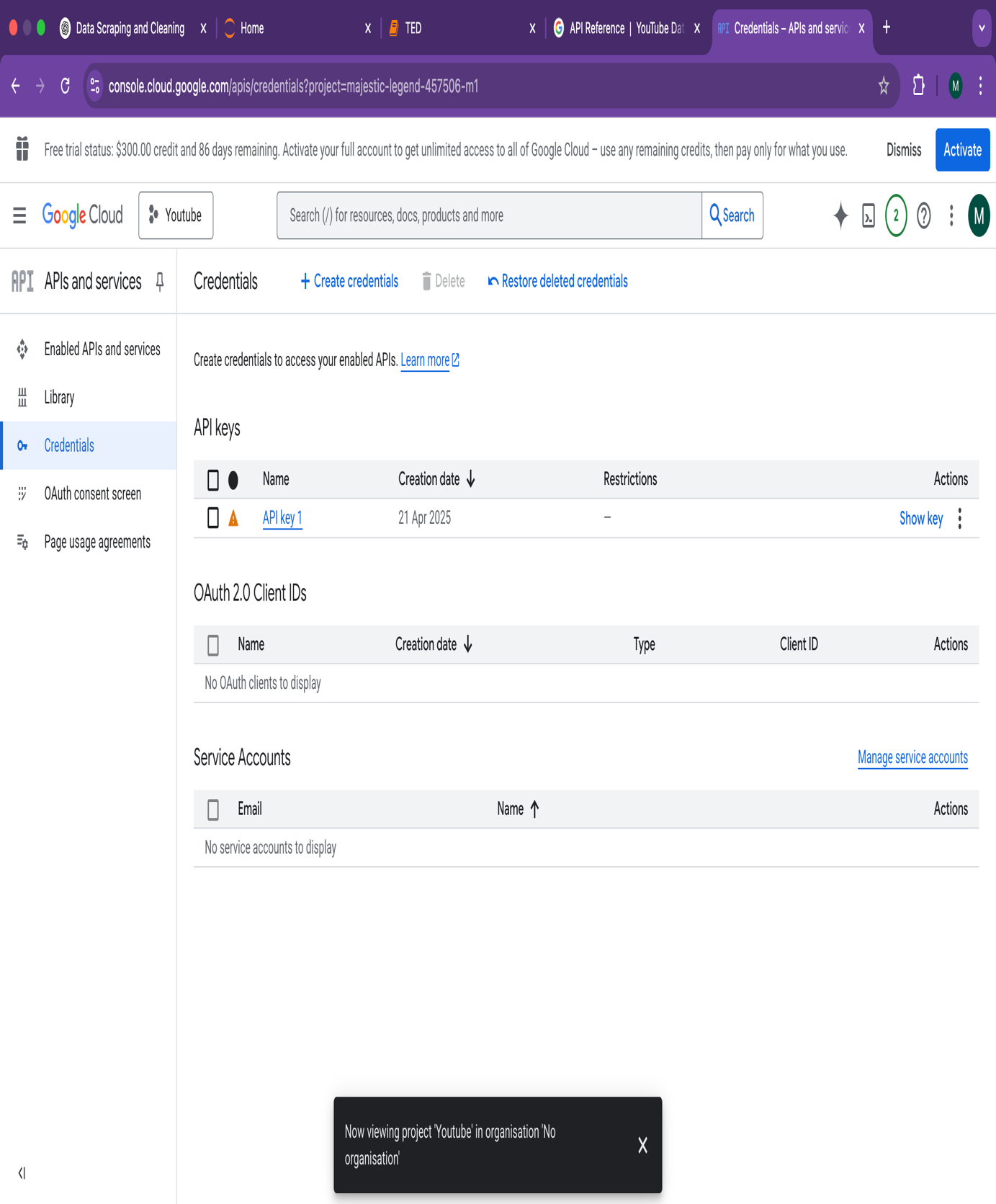
Tools and Technologies:

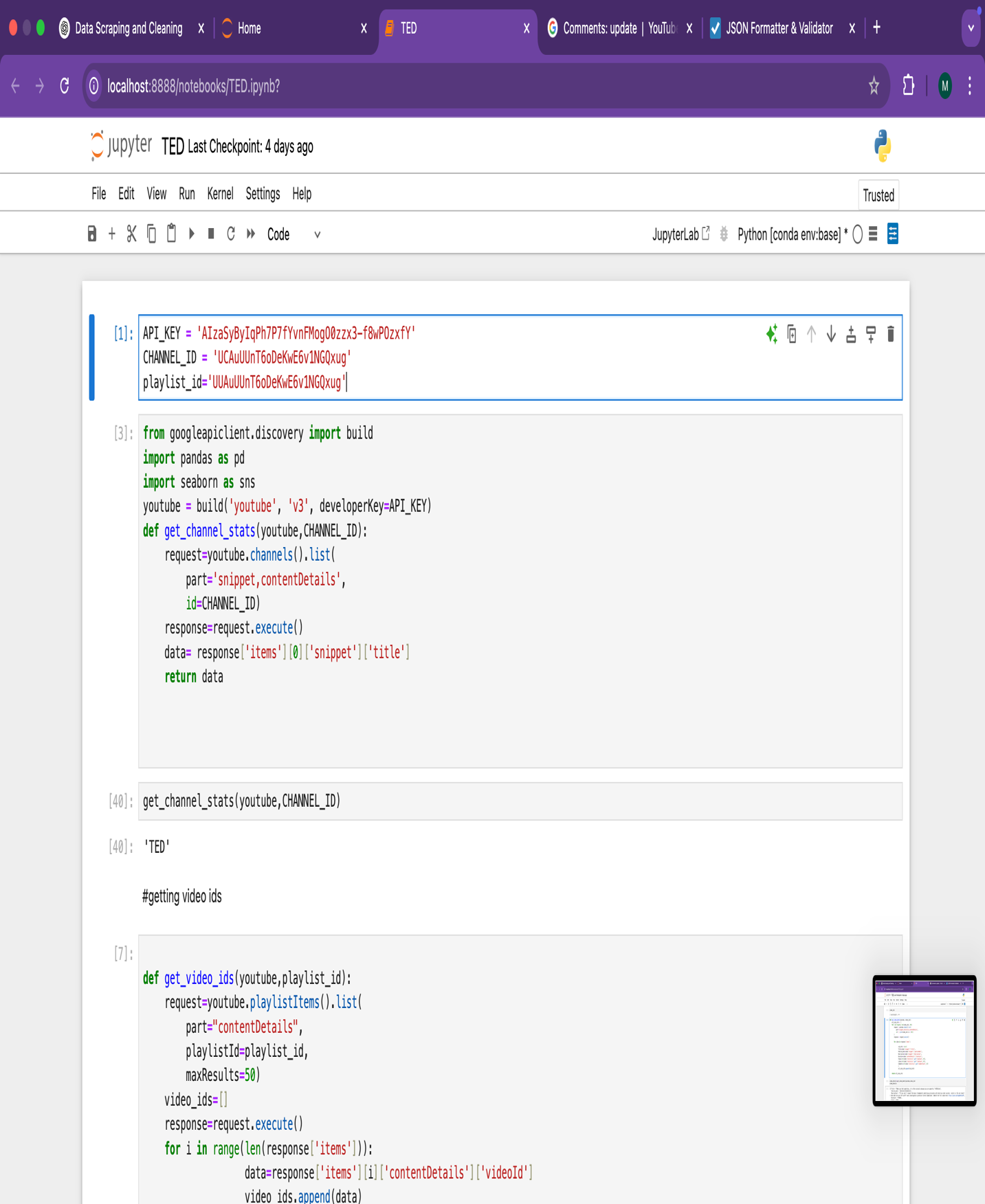
* Jupyter notebook
* Python
* Libraries: googleapiclient, maptolib,pandas, csv, time, selenium,webdriver
* Youtube data api v3
* JSon formatter

First I generated an api key <https://console.cloud.google.com/cloud-resource-manager>



<https://jsonformatter.curiousconcept.com/#>

<https://developers.google.com/youtube/v3/docs>



Getting video ids:

def get\_video\_ids(youtube,playlist\_id):

request=youtube.playlistItems().list(

part="contentDetails",

playlistId=playlist\_id,

maxResults=50)

video\_ids=[]

response=request.execute()

for i in range(len(response['items'])):

data=response['items'][i]['contentDetails']['videoId']

video\_ids.append(data)

next\_page\_token=response.get('nextPageToken')

more\_pages=True

while more\_pages:

if next\_page\_token is None:

more\_pages=False

else:

request=youtube.playlistItems().list(

part="contentDetails",

playlistId=playlist\_id,

maxResults=50,

pageToken=next\_page\_token)

response=request.execute()

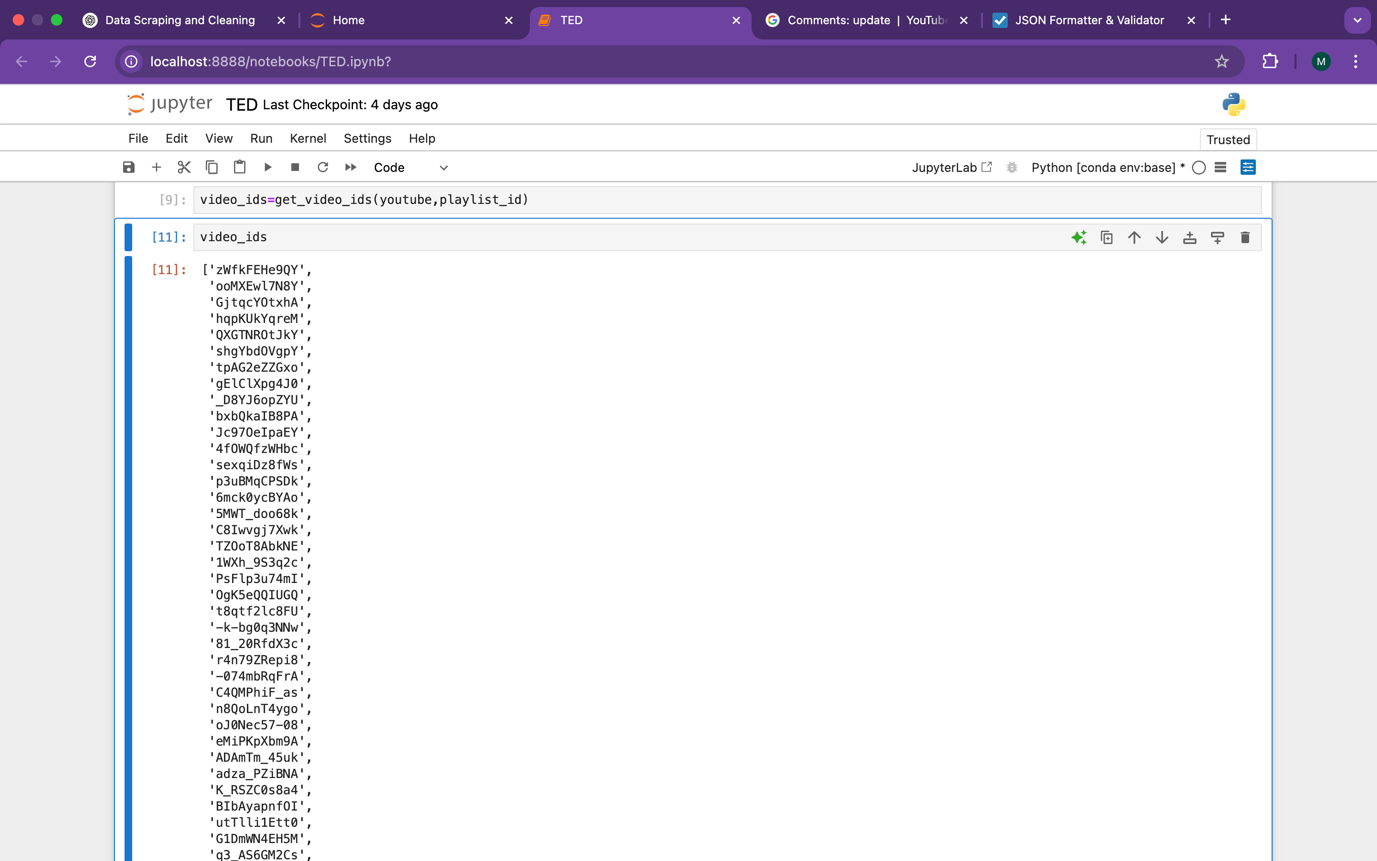
for i in range(len(response['items'])):

data=response['items'][i]['contentDetails']['videoId']

video\_ids.append(data)

next\_page\_token=response.get('nextPageToken')

return video\_ids

This gave me video ids for 5k+ videos.

def get\_video\_deets(youtube, video\_ids):

all\_vids\_info = []

for i in range(0, len(video\_ids), 50):

request = youtube.videos().list(

part='snippet,statistics,contentDetails',

id=','.join(video\_ids[i:i + 50])

)

response = request.execute()

for video in response['items']:

vid\_info = dict(

Title=video['snippet']['title'],

Publish\_date=video['snippet']['publishedAt'],

Description=video['snippet']['description'],

Duration=video['contentDetails']['duration'],

Views=int(video['statistics'].get('viewCount', 0)),

Likes=int(video['statistics'].get('likeCount', 0)),

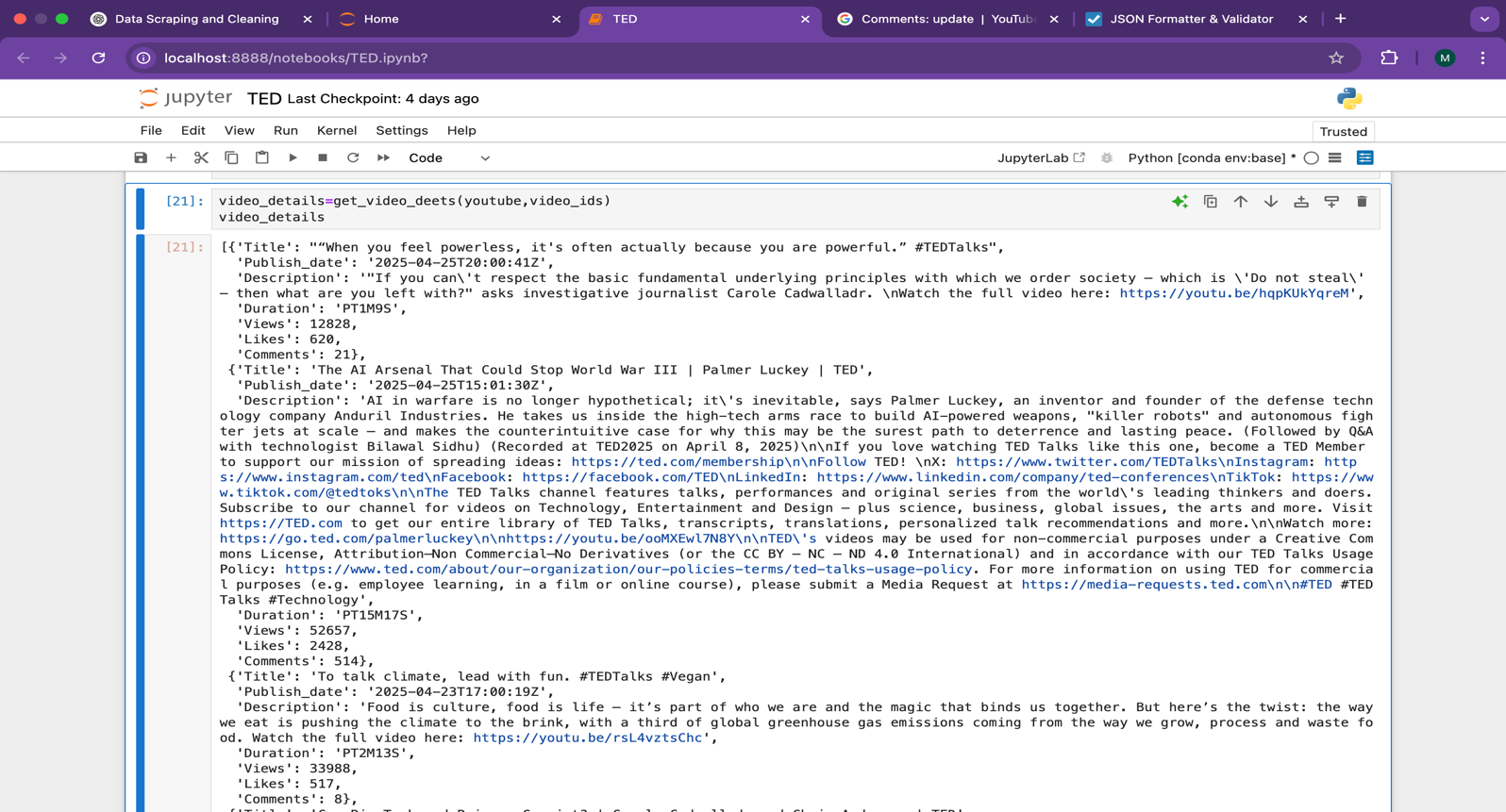
Comments=int(video['statistics'].get('commentCount', 0))

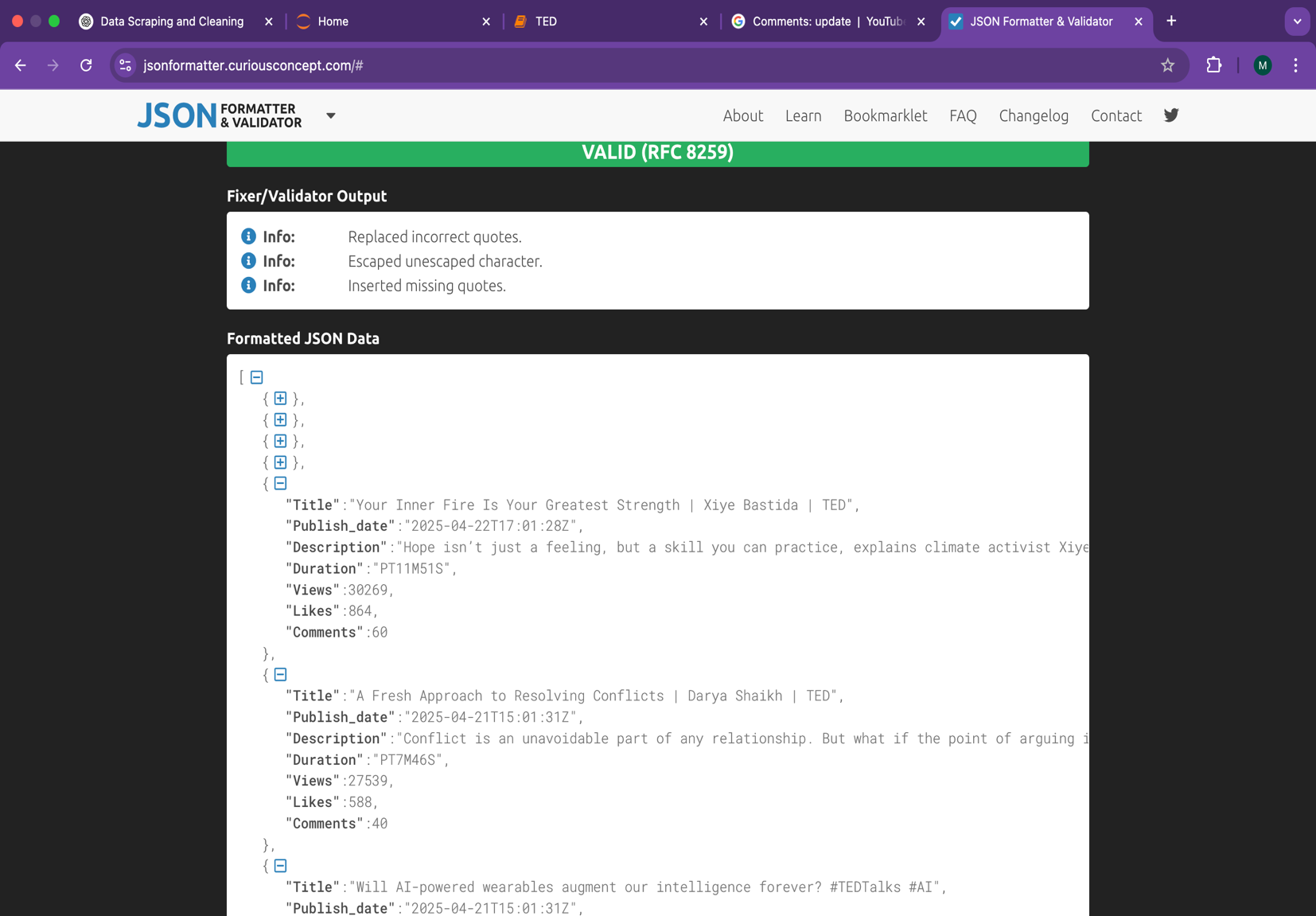
)

all\_vids\_info.append(vid\_info)

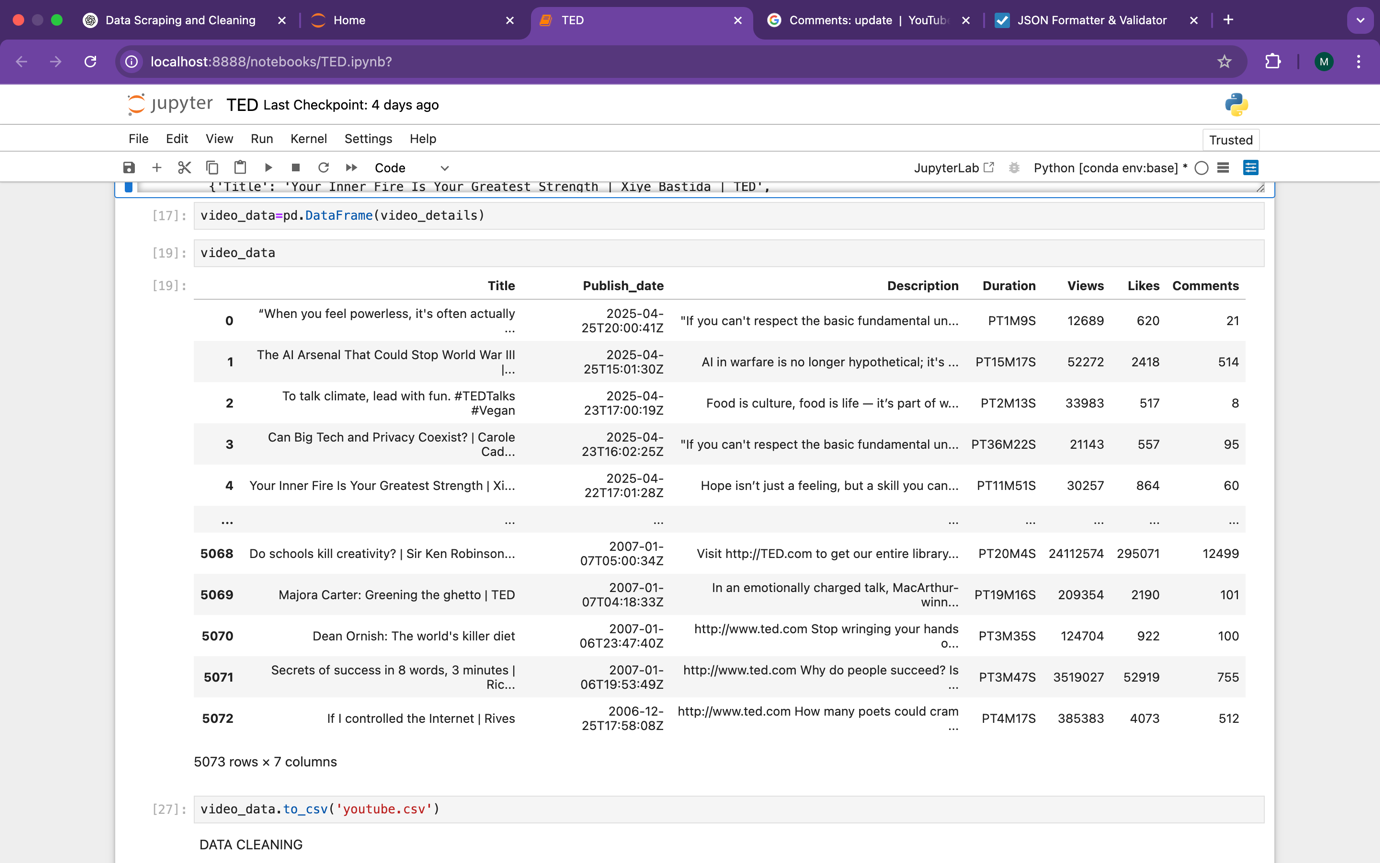
return all\_vids\_info

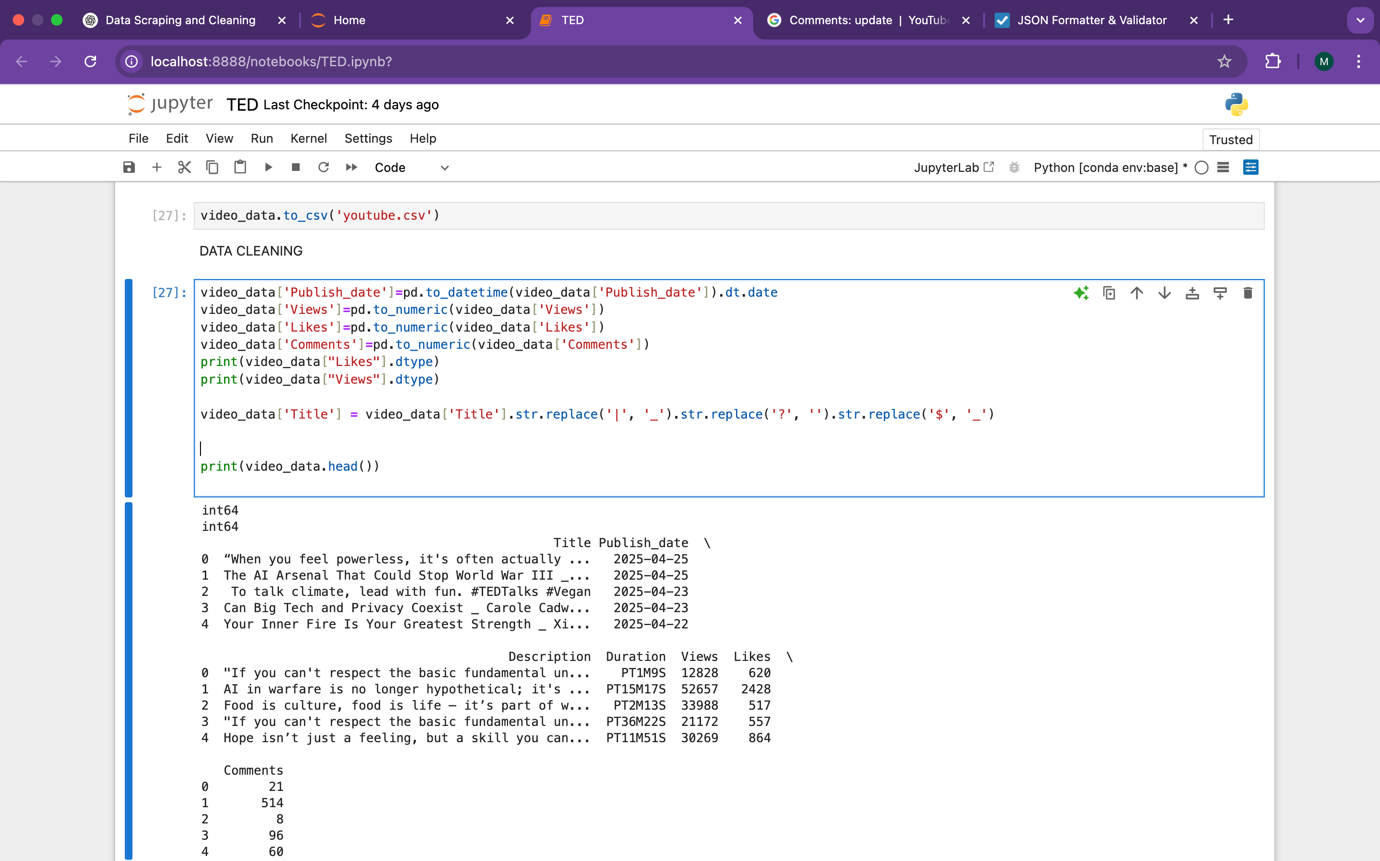
this code gave us all the video details in json format

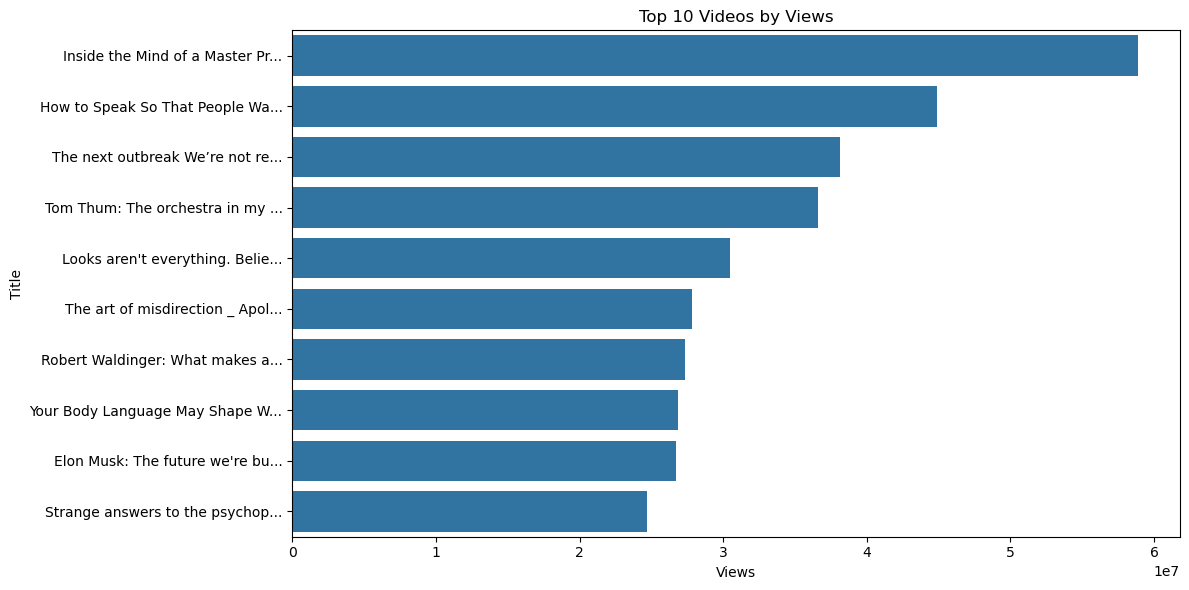
I copy pasted some of the text json formatter to understand the tags



Converted this into a pd dataframe and then saved to a file called youtube.csv





Top 10 videos  
  
