# A Start-up powering Aspect-based Sentiment Analysis using NLP

# A PROJECT REPORT – FINAL REVIEW

Submitted by

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**Course Code: 4022** 

**Course Title: Natural Language Processing** 

Under the guidance of

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# SCHOOL OF COMPUTER SCIENCE AND ENGINEERING April, 2023

#### **GITHUB LINKS:**

- 1. https://github.com/kevinscaria/InstructABSA
- 2. https://github.com/anmolbansal7/Auto-NLP
- 3. <a href="https://github.com/Prajwal10031999/Sentiment-Analysis-ML-Flask-App">https://github.com/Prajwal10031999/Sentiment-Analysis-ML-Flask-App</a>
- 4. <a href="https://github.com/yangheng95/PyABSA">https://github.com/yangheng95/PyABSA</a>

# **Some Research Papers:**

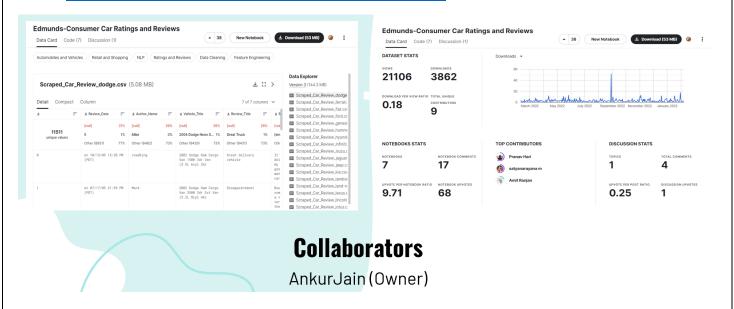
- https://reader.elsevier.com/reader/sd/pii/S2666449621000529?token=80E7CD4AAEE012E B603D42ACE7057B4CC155D5E5785BF89B11FEA83934EC1F0298A7ECD203B0425214FCF10 22CABC7BB&originRegion=eu-west-1&originCreation=20230414182230
- 2. <a href="https://dl.acm.org/doi/10.1145/3389035">https://dl.acm.org/doi/10.1145/3389035</a>

# YouTube API

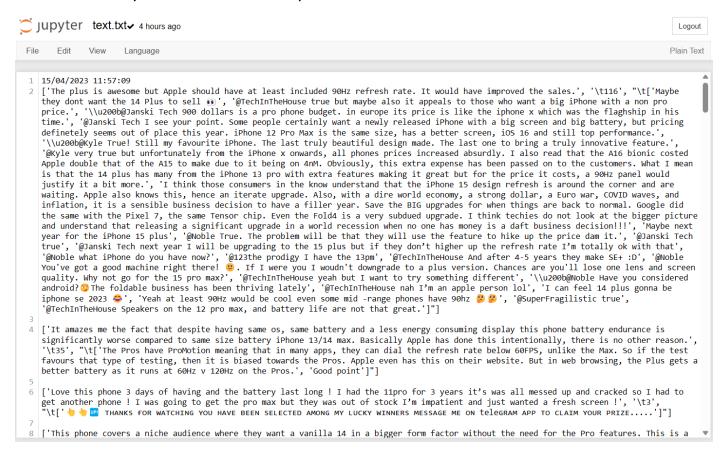
https://developers.google.com/youtube/ v - 0 X ◆ Comments | YouTube Data API x + ← → C • developers.google.com/youtube/v3/docs/comments □ ☆ □ h : ⊕ English ▼ : h Q Search YouTube > Data API Resource representation Methods The following JSON structure shows the format of a comments resource: Activities Properties Captions **•** • ChannelBanners Recommended for you "kind": "youtube#comment", ▶ Channels "kind . youtes "etag": <u>etag /</u>, "id": <u>string /</u>, ChannelSections Updated Nov 5, 2022 Comments CommentThreads: list "authorDisplayName": string / Overview "authorProfileImageUrl": string /,
"authorChannelUrl": string /,
"authorChannelId": { CommentThreads list insert update "value": string 🖊 markAsSpam "channelId": string 🖍, setModerationStatus "videoId": string / "textDisplay": string /, "textOriginal": string / ▶ CommentThreads ▶ i18nLanguages "parentId": string /,
"canRate": boolean /, ▶ i18nRegions "viewerRating": string /,
"likeCount": unsigned integer /,
"moderationStatus": string /, Members MembershipsLevels PlaylistItems "publishedAt": datetime /
"updatedAt": datetime / Playlists Search Subscriptions

#### **Datasets:**

1. Edmunds-Consumer Car Ratings and Reviews | Kaggle



2. Created by YouTube comments by ourselves.

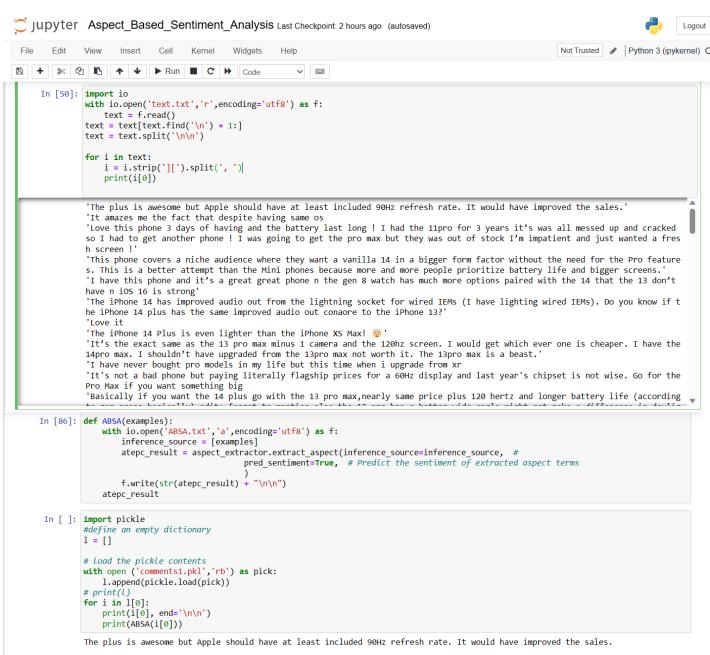


# Our Work:

# Aspect Based Sentiment Analysis: Find Available Checkpoints For Current Version

```
Init a aspect extractor from online checkpoint or local checkpoint
In [2]: from pyabsa import ATEPCCheckpointManager
               aspect_extractor = ATEPCCheckpointManager.get_aspect_extractor(checkpoint='english',
                                                                              auto_device=True # False means load model on CPU
               [2023-04-15 13:28:23] (2.2.3) Downloading checkpoint:english
               [2023-04-15 13:28:23] (2.2.3) Notice: The pretrained model are used for testing, it is recommended to train the model on your o
               [2023-04-15 13:28:23] (2.2.3) Checkpoint already downloaded, skip [2023-04-15 13:28:23] (2.2.3) Load aspect extractor from checkpoints\ATEPC_ENGLISH_CHECKPOINT\fast_lcf_atepc_English_cdw_apcace
                 82.36 apcf1 81.89 atef1 75.43
               [2023-04-15 13:28:23] (2.2.3) config: checkpoints\ATEPC_ENGLISH_CHECKPOINT\fast_lcf_atepc_English_cdw_apcacc_82.36_apcf1_81.89_
               atef1_75.43\fast_lcf_atepc.config
               [2023-04-15 13:28:23] (2.2.3) state_dict: checkpoints\ATEPC_ENGLISH_CHECKPOINT\fast_lcf_atepc_English_cdw_apcacc_82.36_apcf1_8
               1.89_atef1_75.43\fast_lcf_atepc.state_dict
[2023-04-15 13:28:23] (2.2.3) model: None
               [2023-04-15 13:28:23] (2.2.3) tokenizer: checkpoints\ATEPC_ENGLISH_CHECKPOINT\fast_lcf_atepc_English_cdw_apcacc_82.36_apcf1_81.
               89_atef1_75.43\fast_lcf_atepc.tokenizer
               [2023-04-15 13:28:23] (2.2.3) Set Model Device: cpu
               [2023-04-15 13:28:23] (2.2.3) Device Name: Unknown
               Some weights of the model checkpoint at microsoft/deberta-v3-base were not used when initializing DebertaV2Model: ['mask_predic
              tions.dense.bias', 'mask_predictions.layerNorm.weight', 'mask_predictions.layerNorm.bias', 'mask_predictions.classifier.weight', 'lm_predictions.lm_head.bias', 'mask_predictions.dense.weight', 'lm_predictions.lm_head.bias', 'mask_predictions.dense.weight', 'lm_predictions.lm_head.bias', 'mask_predictions.dense.weight', 'lm_predictions.lm_head.bias', 'mask_predictions.dense.weight', 'lm_predictions.dense.weight', 'lm_predictions.de
               d.dense.weight', 'mask_predictions.classifier.bias', 'lm_predictions.lm_head.LayerNorm.bias', 'lm_predictions.lm_head.LayerNor
              m.weight']
                - This IS expected if you are initializing DebertaV2Model from the checkpoint of a model trained on another task or with anothe
               r architecture (e.g. initializing a BertForSequenceClassification model from a BertForPreTraining model).
                 This IS NOT expected if you are initializing DebertaV2Model from the checkpoint of a model that you expect to be exactly iden
               tical (initializing a BertForSequenceClassification model from a BertForSequenceClassification model).
              Special tokens have been added in the vocabulary, make sure the associated word embeddings are fine-tuned or trained. C:\Users\vansh\anaconda3\lib\site-packages\transformers\convert_slow_tokenizer.py:446: UserWarning: The sentencepiece tokenizer
               that you are converting to a fast tokenizer uses the byte fallback option which is not implemented in the fast tokenizers. In p
```

```
Aspect Term Extract & Sentiment Inference
  Jupyter Aspect_Based_Sentiment_Analysis Last Checkpoint: 2 hours ago (autosaved)
                                                                                                                                                         Logout
                                                                                                               Notebook saved Not Trusted
                                                                                                                                            Python 3 (ipykernel) O
                 View
                         Insert
                                  Cell
                                          Kernel
                                                   Widgets
                                                              Help
   B + % 6 F A → P Run C → Markdown
                                                                  v =
         In [8]: # You can inference from a list of setences or a DatasetItem from PyABSA
                  examples = ['Staff was very rude but food was delicious']
                  inference_source = examples
                  atepc_result = aspect_extractor.extract_aspect(inference_source=inference_source,
                                              pred_sentiment=True, # Predict the sentiment of extracted aspect terms
                  C:\Users\vansh\anaconda3\lib\site-packages\pyabsa\tasks\AspectTermExtraction\prediction\aspect_extractor.py:563: UserWarning: C
                  reating a tensor from a list of numpy.ndarrays is extremely slow. Please consider converting the list to a single numpy.ndarray with numpy.array() before converting to a tensor. (Triggered internally at C:\b\abs_bao@hdcrdh\croot\pytorch_1675190257512\wor
                  k\torch\csrc\utils\tensor_new.cpp:204.)
                    lcf_cdm_vec = torch.tensor(
                  [2023-04-14 23:14:51] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST_LCF_ATEPC.result.json
                   [2023-04-14 23:14:51] (2.2.3) Example 0: Staff was very rude but <food:Positive Confidence:0.9994> was delicious
                  C:\Users\vansh\anaconda3\lib\site-packages\pyabsa\tasks\AspectTermExtraction\prediction\aspect_extractor.py:644: UserWarning: I mplicit dimension choice for softmax has been deprecated. Change the call to include dim=X as an argument.
                     float(x) for x in F.softmax(i_apc_logits).cpu().numpy().tolist()
         In [9]: atepc result
         was',
                      'verv
                      'rude'
                      'but'
                      'food<sup>'</sup>,
                     'was',
'delicious'],
'aspect': ['staff', 'food'],
'position': [[1], [6]],
'sentiment': ['Negative', 'Positive'],
'probs': [[0.9969356060028076, 0.002819894580170512, 0.0002444844867568463],
                      [0.00032588167232461274, 0.00029358777101151645, 0.9993804693222046]],
                     'confidence': [0.9969, 0.9994]}]
  Jupyter Aspect_Based_Sentiment_Analysis Last Checkpoint: 2 hours ago (autosaved)
                                                                                                                                                              Logout
          Edit
                 View
                          Insert
                                   Cell
                                           Kernel
                                                    Widgets
                                                                Help
                                                                                                                                 Not Trusted
                                                                                                                                                Python 3 (ipykernel) C
  In [9]: # You can inference from a list of setences or a DatasetItem from PyABSA
                  examples = ['Its an fine okayish phone']
                  inference source = examples
                  atepc_result = aspect_extractor.extract_aspect(inference_source=inference_source,
                                               pred_sentiment=True, # Predict the sentiment of extracted aspect terms
                  atepc result
                  [2023-04-15 11:20:24] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP Proj\PvABSA-2
                   \Aspect Term Extraction and Polarity Classification.FAST_LCF_ATEPC.result.json
                  [2023-04-15 11:20:24] (2.2.3) Example 0: Its an fine okayish phone
         Out[9]: [{'sentence': 'Its an fine okayish phone',
                     'IOB': ['O', 'O', 'O', 'O', 'B-ASP'],
'tokens': ['Its', 'an', 'fine', 'okayish', 'phone'],
'aspect': ['phone'],
                     'position': [[5]],
'sentiment': ['Neutral'],
                     'probs': [[0.023734791204333305, 0.9609071612358093, 0.015358027070760727]],
                     'confidence': [0.9609]}]
        In [51]: # You can inference from a list of setences or a DatasetItem from PyABSA
                  examples = [['The display of this laptop sometimes flicker, but it has a genuine price'], ['Its an fine okayish phone']]
                  atepc_result = []
                  for inference source in examples:
                      atepc_result.append(aspect_extractor.extract_aspect(inference_source=inference_source, #
                                                   pred_sentiment=True, # Predict the sentiment of extracted aspect terms
                                            )
                  atepc result
                  [2023-04-15 11:59:08] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP Proi\PvABSA-2
                   \Aspect Term Extraction and Polarity Classification.FAST_LCF_ATEPC.result.json
                  [2023-04-15 11:59:08] (2.2.3) Example 0: The <display:Negative Confidence:0.9985> of this laptop sometimes flicker , but it has
                  [2023-04-15 12:02:21] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP Proj\PyABSA-2
                   \Aspect Term Extraction and Polarity Classification.FAST_LCF_ATEPC.result.json
                  [2023-04-15 12:02:21] (2.2.3) Example 0: Its an fine okayish phone
        Out[51]: [[{'sentence': 'The display of this laptop sometimes flicker , but it has a genuine price',
```



[2023-04-15 12:57:51] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json

[2023-04-15 12:57:51] (2.2.3) Example 0: The plus is awesome but Apple should have at least included 90Hz <refresh:Negative Confidence:0.8074> rate . It would have improved the sales .

It amazes me the fact that despite having same os, same battery and a less energy consuming display this phone battery endurance is significantly worse compared to same size battery iPhone 13/14 max. Basically Apple has done this intentionally, there is no other reason.

[2023-04-15 13:00:18] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json

[2023-04-15 13:00:18] (2.2.3) Example 0: It amazes me the fact that despite having same <os:Positive Confidence:0.9865> , same <battery:Positive Confidence:0.9806> and a less energy consuming <display:Positive Confidence:0.9202> this phone <battery endurance:Negative Confidence:0.9648> is significantly worse compared to same size battery iPhone 13 / 14 max . Basically Apple has done this intentionally , there is no other reason .

Love this phone 3 days of having and the battery last long ! I had the 11pro for 3 years it's was all messed up and cracked so I had to get another phone ! I was going to get the pro max but they was out of stock I'm impatient and just wanted a fresh screen!

[2023-04-15 12:57:51] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json [2023-04-15 12:57:51] (2.2.3) Example 0: The plus is awesome but Apple should have at least included 90Hz <refresh:Negative Con idence:0.8074> rate . It would have improved the sales . It amazes me the fact that despite having same os, same battery and a less energy consuming display this phone battery enduranc e is significantly worse compared to same size battery iPhone 13/14 max. Basically Apple has done this intentionally, there is [2023-04-15 13:00:18] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json [2023-04-15 13:00:18] (2.2.3) Example 0: It amazes me the fact that despite having same <os:Positive Confidence:0.9865> , same done this intentionally , there is no other reason .

Love this phone 3 days of having and the battery last long ! I had the 11pro for 3 years it's was all messed up and cracked so I had to get another phone ! I was going to get the pro max but they was out of stock I'm impatient and just wanted a fresh scr [2023-04-15 13:01:55] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json This phone covers a niche audience where they want a vanilla 14 in a bigger form factor without the need for the Pro features. This is a better attempt than the Mini phones because more and more people prioritize battery life and bigger screens. [2023-04-15 13:03:58] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json [2023-04-15 13:03:58] (2.2.3) Example 0: This phone covers a niche audience where they want a vanilla 14 in a bigger <form fact or:Positive Confidence:0.9992> without the need for the Pro features . This is a better attempt than the Mini phones because mo re and more people prioritize <battery life:Positive Confidence:0.957> and bigger <screens:Positive Confidence:0.9793> . I have this phone and it's a great great phone n the gen 8 watch has much more options paired with the 14 that the 13 don't hav e n iOS 16 is strong [2023-04-15 13:05:05] (2.2.3) The results of aspect term extraction have been saved in C:\Users\vansh\Desktop\NLP\_Proj\PyABSA-2 \Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json [2023-04-15 13:05:05] (2.2.3) Example 0: I have this phone and it 's a great great phone n the gen 8 watch has much more options paired with the 14 that the 13 don 't have n <iOS 16:Positive Confidence:0.999> is strong The iPhone 14 has improved audio out from the lightning socket for wired IEMs (I have lighting wired IEMs). Do you know if the iPhone 14 plus has the same improved audio out conaore to the iPhone 13? Upyter Aspect Term Extraction and Polarity Classification.FAST\_LCF\_ATEPC.result.json ✓ 2 hours ago Logout File Edit View Language JSON ABSA File Edit View 

# **Using VADER Sentiment Analysis:**

```
In [10]: import nltk
             nltk.download('punkt')
             nltk.download('stopwords')
nltk.download('vader_lexicon')
             from nltk.sentiment.vader import SentimentIntensityAnalyzer
             from nltk.tokenize import word tokenize
             from nltk.corpus import stopwords
             # Create an instance of the SentimentIntensityAnalyzer
             sia = SentimentIntensityAnalyzer()
             # Define a function to clean the text and tokenize it
             def preprocess text(text):
                  # Convert text to lowercase
                  text = text.lower()
                  # Remove stop words
                  stop words = set(stopwords.words('english'))
                  words = word tokenize(text)
                  words = [w for w in words if not w in stop_words]
                  # Join the words back into a string
                  text = ' '.join(words)
                  return text
             # Define a function to perform sentiment analysis on a given text
             def analyze_sentiment(text):
                  # Preprocess the text
                  text = preprocess_text(text)
                  # Analyze the sentiment using the SentimentIntensityAnalyzer
                  sentiment = sia.polarity_scores(text)
                  return sentiment
In [20]: import pickle
        #define an empty dictionary
       1 = []
        # load the pickle contents
with open ('comments1.pkl','rb') as pick:
           1.append(pickle.load(pick))
        # print(l)
        for i in 1[0]:
           print(i[0], end='\n')
           print(analyze_sentiment(i[0]), end = '\n\n')
        The plus is awesome but Apple should have at least included 90Hz refresh rate. It would have improved the sales. {'neg': 0.0, 'neu': 0.556, 'pos': 0.444, 'compound': 0.802}
        It amazes me the fact that despite having same os, same battery and a less energy consuming display this phone battery endura
        nce is significantly worse compared to same size battery iPhone 13/14 max. Basically Apple has done this intentionally, there
        is no other reason.
```

The plus is awesome but Apple should have at least included 90Hz refresh rate. It would have improved the sales. {'neg': 0.0, 'neu': 0.556, 'pos': 0.444, 'compound': 0.802}

It amazes me the fact that despite having same os, same battery and a less energy consuming display this phone battery endura nce is significantly worse compared to same size battery iPhone 13/14 max. Basically Apple has done this intentionally, there is no other reason.

{'neg': 0.103, 'neu': 0.731, 'pos': 0.166, 'compound': 0.228}

Love this phone 3 days of having and the battery last long! I had the 11pro for 3 years it's was all messed up and cracked s o I had to get another phone! I was going to get the pro max but they was out of stock I'm impatient and just wanted a fresh screen!

{'neg': 0.153, 'neu': 0.6, 'pos': 0.246, 'compound': 0.5826}

This phone covers a niche audience where they want a vanilla 14 in a bigger form factor without the need for the Pro feature s. This is a better attempt than the Mini phones because more and more people prioritize battery life and bigger screens.

{'neg': 0.0, 'neu': 0.84, 'pos': 0.16, 'compound': 0.4939}

I have this phone and it's a great great phone n the gen 8 watch has much more options paired with the 14 that the 13 don't h ave n iOS 16 is strong

#### YouTube Extractor: Jupyter YTCommentExtractor Last Checkpoint: 3 hours ago (unsaved changes) Logout Python 3 (ipykernel) O View Insert Cell Kernel Widgets Help In [1]: #!pip install google-api-python-client from googleapiclient.discovery import build from datetime import datetime # To remove HTML Tags from bs4 import BeautifulSoup video\_id = "HDkd\_n01tvA" api\_key = 'AIzaSyDx49S-3eGxX4f1tXmPQjrJMZNUeaiSk0I' # recursive function to get all replies in a comment thread def get\_replies(comment\_id, token): replies\_response = yt\_object.comments().list(part = 'snippet', maxResults = 100, parentId = comment\_id, pageToken = token).ex for reply in replies\_response['items']: all\_comments.append(reply['snippet']['textDisplay']) if replies\_response.get("nextPageToken"): return get\_replies(comment\_id, replies\_response['nextPageToken']) else: return [] # recursive function to get all comments def get\_comments(youtube, video\_id, next\_view\_token): global all\_comments # check for token if len(next\_view\_token.strip()) == 0: $all\_comments = []$ if next\_view\_token == '': # get the initial response comment list = youtube.commentThreads().list(part = 'snippet', maxResults = 100, videoId = video id, order = 'relevance') # get the next page response comment\_list = youtube.commentThreads().list(part = 'snippet', maxResults = 100, videoId = video\_id, order='relevance', proceedings and the place of comments in comment\_list['items']: # add comment\_tist['items']: all\_comments.append([comment['snippet']['topLevelComment']['snippet']['textDisplay']]) # add Number Of Likes to List all\_comments[-1].append(comment['snippet']['topLevelComment']['snippet']['likeCount']) # get number of replies reply\_count = comment['snippet']['totalReplyCount'] all\_replies = [] # if replies greater than 0 if reply\_count > 0: # get first 100 replies replies\_list = youtube.comments().list(part='snippet', maxResults=100, parentId=comment['id']).execute() for reply in replies\_list['items']: # add reply to list all\_replies.append(reply['snippet']['textDisplay']) # check for more replies while "nextPageToken" in replies list: token\_reply = replies\_list['nextPageToken'] # get next set of 1000 replies replies\_list = youtube.comments().list(part = 'snippet', maxResults = 1000, parentId = comment['id'], pageToken for reply in replies\_list['items']: # add reply to list s = reply['snippet']['textDisplay'] all\_replies.append(s)

```
# add all replies to the comment
        \verb|all_comments[-1].append(all_replies[::-1])|\\
    if "nextPageToken" in comment_list:
        return get_comments(youtube, video_id, comment_list['nextPageToken'])
       return []
all comments = []
# build a youtube object using our api key
yt_object = build('youtube', 'v3', developerKey=api_key)
# aet all comments and replies
comments = get comments(yt object, video id, '')
# Store all the comments into pickle file
import pickle
with open('comments.pkl', 'wb') as file:
   pickle.dump(all comments, file)
with open('comments.pkl', 'rb') as file:
   s.append(pickle.load(file))
    print(i)
 ['The plus is awesome but Apple should have at least included 90Hz refresh rate. It would have improved the sales.', 116, ['May
```

['This phone covers a niche audience where they want a vanilla 14 in a bigger form factor without the need for the Pro feature s. This is a better attempt than the Mini phones because more and more people prioritize battery life and bigger screens.', 51, ['Yes that's me', 'It could've been better with at least a 90Hz Screen. But again, the price probably denies my suggestion.'!]

#### **ERRORS:**

# 1. While Extraction:

### a. Instagram:

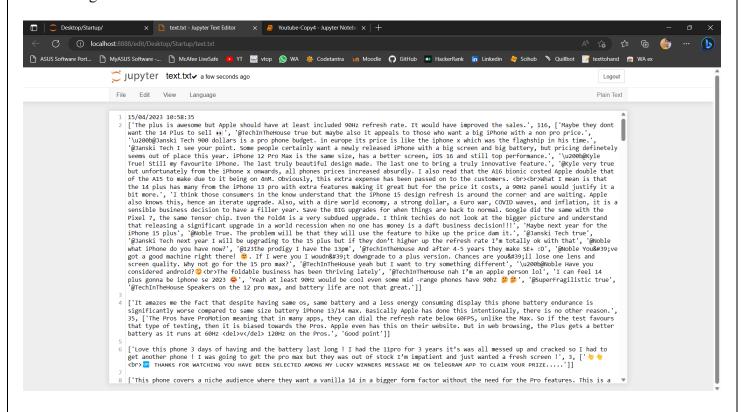
```
In [15]: import requests
            # make a GET request to the Instagram page
            response = requests.get("https://www.instagram.com/rvcjindia")
            # check if the request was successful
            if response.status_code == 200:
                 # extract the content of the page
                 content = response.content
                # search for the data you want to scrape, for example the user's followers count
start = content.find("\"edge_followed_by\":{\"count\":") + 27
end = content.find("},\"followed_by_viewer\"")
followers = content[start:end]
                # print the followers count
print("Followers:", followers)
                print("Request failed with status code", response.status_code)
            TimeoutError
                                                                  Traceback (most recent call last)
            ~\anaconda3\lib\site-packages\urllib3\connection.py in _new_conn(self)
                173
                                     conn = connection.create connection(
            --> 174
                                           (self._dns_host, self.port), self.timeout, **extra_kw
                175
            ~\anaconda3\lib\site-packages\urllib3\util\connection.py in create_connection(address, timeout, source_address, socket_option
            s)
                  95
                           if err is not None:
            ---> 96
                                 raise err
           ~\anaconda3\lib\site-packages\requests\sessions.py in send(self, request, **kwargs)
                653
                                # Send the request
           --> 655
                                r = adapter.send(request, **kwargs)
                656
                                # Total elapsed time of the request (approximately)
           ~\anaconda3\lib\site-packages\requests\adapters.py in send(self, request, stream, timeout, verify, cert, proxies)
                508
                                    if isinstance(e.reason, _ProxyError):
    raise ProxyError(e, request=request)
                509
           --> 510
                511
                512
                                     if isinstance(e.reason, _SSLError):
           ProxyError: HTTPSConnectionPool(host='www.instagram.com', port=443): Max retries exceeded with url: /rvcjindia (Caused by Pro xyError('Cannot connect to proxy.', NewConnectionError('<urllib3.connection.HTTPSConnection object at 0x00000211AA9484F0>: Fa iled to establish a new connection: [WinError 10060] A connection attempt failed because the connected party did not properly
           respond after a period of time, or established connection failed because connected host has failed to respond')))
```

#### b. Twitter:

```
In [11]: import twint
          c = twint.Config()
          c.Search = ['Taylor Swift']
                                              # topic
          c.Limit = 500  # number of Tweets to scrape
          c.Store_csv = True  # store tweets in a csv file
          c.Output = "taylor_swift_tweets.csv" # path to csv file
          twint.run.Search(c)
          RuntimeError
                                                         Traceback (most recent call last)
          ~\AppData\Local\Temp/ipykernel_11380/3337082665.py in <module>
                 8 c.Output = "taylor_swift_tweets.csv" # path to csv file
          ---> 10 twint.run.Search(c)
          ~\anaconda3\lib\site-packages\twint\run.py in Search(config, callback)
                        config.Profile = False
                       config.Profile_full = False
               326
          --> 327
                        run(config, callback)
                       if config.Pandas_au:
               328
               329
                            storage.panda._autoget("tweet")
          ~\anaconda3\lib\site-packages\twint\run.py in run(config, callback)
               225
          --> 226
                        get_event_loop().run_until_complete(Twint(config).main(callback))
             228 def Favorites(config):
          ~\anaconda3\lib\asyncio\base_events.py in run_until_complete(self, future)
             590
                        self._check_closed()
             591
          --> 592
                        self._check_running()
             593
                        new_task = not futures.isfuture(future)
          ~\anaconda3\lib\asyncio\base_events.py in _check_running(self)
                    def _check_running(self):
    if self.is_running():
             550
             551
                          raise RuntimeError('This event loop is already running')
          --> 552
                       if events._get_running_loop() is not None:
    raise RuntimeError(
             553
          RuntimeError: This event loop is already running
```

#### c. Youtube

#### HTML Tags are there in the text



# Issue Solved

