```
#importing the dataset
import pandas as pd
data=pd.read_csv(r"C:\Users\USER\AI APT\youtube_covid\comments.csv")
data
```

```
      post_id     post_author            post_date  \
0      kdmkbz    KinnerNevada  2020-12-15 14:21:20
1      kdmkbz    KinnerNevada  2020-12-15 14:21:20
2      kdmkbz    KinnerNevada  2020-12-15 14:21:20
3      kdmkbz    KinnerNevada  2020-12-15 14:21:20
4      kdmkbz    KinnerNevada  2020-12-15 14:21:20
...       ...             ...                  ...
34763  ky9846  Anxious-Region  2021-01-16 01:45:59
34764  ky9846  Anxious-Region  2021-01-16 01:45:59
34765  ky9846  Anxious-Region  2021-01-16 01:45:59
34766  ky9846  Anxious-Region  2021-01-16 01:45:59
34767  ky9846  Anxious-Region  2021-01-16 01:45:59

                                              post_title
post_score  \
0      Moderna's vaccine is highly effective, FDA say...        42481

1      Moderna's vaccine is highly effective, FDA say...        42481

2      Moderna's vaccine is highly effective, FDA say...        42481

3      Moderna's vaccine is highly effective, FDA say...        42481

4      Moderna's vaccine is highly effective, FDA say...        42481

...                                                  ...          ...

34763  Could too much time between doses drive the co...          125

34764  Could too much time between doses drive the co...          125

34765  Could too much time between doses drive the co...          125

34766  Could too much time between doses drive the co...          125

34767  Could too much time between doses drive the co...          125


                                           post_permalink  \
0      /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
1      /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
2      /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
3      /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
4      /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
...                                                  ...
34763  /r/Coronavirus/comments/ky9846/could_too_much_...
```

```
34764  /r/Coronavirus/comments/ky9846/could_too_much_...
34765  /r/Coronavirus/comments/ky9846/could_too_much_...
34766  /r/Coronavirus/comments/ky9846/could_too_much_...
34767  /r/Coronavirus/comments/ky9846/could_too_much_...
```

```
                                                post_url comment_id  \
0      https://www.nbcnews.com/health/health-news/mod...    gfx8br4
1      https://www.nbcnews.com/health/health-news/mod...    gfx930g
2      https://www.nbcnews.com/health/health-news/mod...    gfxaiv8
3      https://www.nbcnews.com/health/health-news/mod...    gfxglf1
4      https://www.nbcnews.com/health/health-news/mod...    gfxr0fa
...                                                  ...        ...
34763  https://www.sciencemag.org/news/2021/01/could-...    gjeuz6w
34764  https://www.sciencemag.org/news/2021/01/could-...    gjf05tm
34765  https://www.sciencemag.org/news/2021/01/could-...    gjewfw9
34766  https://www.sciencemag.org/news/2021/01/could-...    gjfxy4u
34767  https://www.sciencemag.org/news/2021/01/could-...    gjexat0

              comment_author         comment_date comment_parent_id  \
0              AutoModerator  2020-12-15 14:21:21         t3_kdmkbz
1               Hothabanero6  2020-12-15 14:28:43         t3_kdmkbz
2                  jsinkwitz  2020-12-15 14:42:16         t3_kdmkbz
3       TheyreGoodDogsBrent  2020-12-15 15:36:09         t3_kdmkbz
4                  BG1234567  2020-12-15 17:01:14         t3_kdmkbz
...                      ...                  ...               ...
34763              elcuervo  2021-01-16 02:22:24        t1_gjeubub
34764           MrDataSharp  2021-01-16 03:10:56        t1_gjeut41
34765      Bizzle_worldwide  2021-01-16 02:35:41        t1_gjeuz6w
34766  SpockTheRockDocOckHH  2021-01-16 10:48:47        t1_gjf05tm
34767              elcuervo  2021-01-16 02:43:45        t1_gjewfw9

      comment_edited  comment_score  \
0              False              1
1              False           1784
2              False           1905
3              False           3503
4              False            326
...              ...            ...
34763          False              2
34764          False              4
34765          False              1
34766          False              1
34767   1610811839.0              3

                                             comment_body
0      This post appears to be about vaccines, please...
1      Who's ahead in the pool for the third vaccine ...
2      "asymptomatic infection was reduced by 63 perc...
3      > and appears to prevent the spread of the vir...
4      The fact that there are multiple companies mak...
```

```
...                                                   ...
34763  >If a state receives lower quantities than the...
34764  Military, intelligence and/or diplomatic barga...
34765  Or just not evenly allocated to states. Again,...
34766        I heard aliens just beamed it up. zzzzzooop
34767  I'm not sure what you're trying to argue. Ther...

[34768 rows x 14 columns]
```

```
#exploratory data analysis
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 34768 entries, 0 to 34767
Data columns (total 14 columns):
 #   Column             Non-Null Count  Dtype 
---  ------             --------------  ----- 
 0   post_id            34768 non-null  object
 1   post_author        34768 non-null  object
 2   post_date          34768 non-null  object
 3   post_title         34768 non-null  object
 4   post_score         34768 non-null  int64 
 5   post_permalink     34768 non-null  object
 6   post_url           34768 non-null  object
 7   comment_id         34768 non-null  object
 8   comment_author     34768 non-null  object
 9   comment_date       34768 non-null  object
 10  comment_parent_id  34768 non-null  object
 11  comment_edited     34768 non-null  object
 12  comment_score      34768 non-null  int64 
 13  comment_body       34768 non-null  object
dtypes: int64(2), object(12)
memory usage: 3.7+ MB
```

```
#sum of null values
data.isna().sum()
```

```
post_id              0
post_author          0
post_date            0
post_title           0
post_score           0
post_permalink       0
post_url             0
comment_id           0
comment_author       0
comment_date         0
comment_parent_id    0
comment_edited       0
comment_score        0
```

```
comment_body          0
dtype: int64
```

```
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
```

```
#viewing some of the comments
data['comment_body'].values[10]
```

```
'As someone who worked on Moderna’s vaccine, I want to make it clear that the people who worked on this isn’t just big pharma. The people overseeing the data collection, such as myself, have no financial investment in it. We don’t make or lose money based on the efficacy of the vaccine. Pharma contracts out to us to serve as an unbiased point of review.\n\nWhat we do have is a personal investment in it. Almost everyone who reviewed the vaccine during the trials has had a loved one get very sick or even die from COVID, including myself, and we want nothing more than to have something effective that can actually do some good. Producing a half assed vaccine wouldn’t do any of us on the research side ANY favors, and honestly means more paperwork. \n\nThis vaccine was my child, my heart and soul, and I can promise that what you’ll be getting is the sum of thousands of scientists dedicating sleepless nights and time away from family. I haven’t seen my family since July bc I have to travel to each research site. I STILL can’t see them until February, as I have to close out the sites for the next month. \n\nFuck 2020 and cheers to what’s to come in 2021!\n\nEdit: y’all are seriously so kind, but legit, thanks for trusting strangers with shooting something into your body, and being so willing to receive it. I hope this gets you that much closer to hugging your out of state loved ones and having a drunk night out, swapping drinks without a single threat other than a hangover. Lord knows I’ll be going out the second we can.\n\nEdit 2: if anyone is in Houston once the coast is clear to go out, hmu and we can make it an entire fucking event. I fractured up the axis of my fibula last week and these muscle relaxants make things a partayyyy when you mix with alcohol so it’ll be fun'
```

```
data['comment_body'].values[563]
```

```
"The good thing about JNJ is that it's a One-And-Done type they're shooting for. No need for a second dose."
```

```
data['comment_body'].values[1076]
```

```
"I don't think we're going to get the drop most people expect. I've followed the numbers pretty closely and there's a clear negative feedback loop. As cases rise some people do start to take things more seriously and the spread eventually slows. However as cases fall the exact opposite happens. People start going out more and eventually the spread worsens. I assume most of the gains from the first several
```

```
months of vaccinations will be largely counteracted by others taking
less precautions. I expect to see a long plateau, not a quick drop."
```

```
#EXPLORATORY DATA ANALYSIS
#analyzing post title column which has repeated titles
data['post_title'].value_counts()
```

```
First doses of Pfizer coronavirus vaccine has flown to US from
Belgium.
499
Covid-19: Oxford University vaccine shows 70% protection
496
Moderna's vaccine is highly effective, FDA says, clearing way for
second vaccine                                                    495
Pfizer's Coronavirus vaccine arrive in Chicago O hare international
Airport                                                          495
Just Under Three Million Will Get COVID-19 Vaccine in First Week
495

...
German scientist Özlem Türeci was focused on cancer at BioNTech, then
came COVID-19. It was her 'duty' to help develop a vaccine.      3
The Lancet: Oxford COVID-19 vaccine is safe and protects against
disease, first published results from phase 3 trials
3
‘Still waiting for my turn’: Primary care doctors are being left
behind in the vaccine rollout
2
FDA Takes Additional Action in Fight Against COVID-19 By Issuing
Emergency Use Authorization for Second COVID-19 Vaccine
2
Covid Vaccination Drive To Begin On Jan 16, Landmark Step, Tweets PM
Modi                                                              1
Name: post_title, Length: 290, dtype: int64
```

```
#checking if there are any duplicated rows
duplicated_rows = data[data.duplicated()]
duplicated_rows.sum()
```

```
post_id              0.0
post_author          0.0
post_date            0.0
post_title           0.0
post_score           0.0
post_permalink       0.0
post_url             0.0
comment_id           0.0
comment_author       0.0
comment_date         0.0
comment_parent_id    0.0
```

```
comment_edited       0.0
comment_score        0.0
comment_body         0.0
dtype: float64
```

```
#text tokenization-splitting the text/comment into parts
import nltk
token=nltk.word_tokenize(data["comment_body"][2376])
token[:10]
```

```
['I',
 'think',
 'mRNA',
 'can',
 'be',
 'given',
 'to',
 'partially',
 'immunocompromised',
 'patients']
```

```
#identifying the parts of speech
tagged=nltk.pos_tag(token)
tagged[:10]
```

```
[('I', 'PRP'),
 ('think', 'VBP'),
 ('mRNA', 'NNS'),
 ('can', 'MD'),
 ('be', 'VB'),
 ('given', 'VBN'),
 ('to', 'TO'),
 ('partially', 'RB'),
 ('immunocompromised', 'JJ'),
 ('patients', 'NNS')]
```

```
entities=nltk.chunk.ne_chunk(tagged)
entities.pprint()
```

```
(S
  I/PRP
  think/VBP
  mRNA/NNS
  can/MD
  be/VB
  given/VBN
  to/TO
  partially/RB
  immunocompromised/JJ
  patients/NNS
  because/IN
```

```
it/PRP
does/VBZ
n't/RB
contain/VB
any/DT
of/IN
the/DT
virus/NN
./.
Just/NNP
instructions/NNS
for/IN
your/PRP$
own/JJ
cells/NNS
to/TO
produce/VB
a/DT
spike/NN
protein/NN
which/WDT
your/PRP$
immune/NN
system/NN
could/MD
try/VB
to/TO
fight/VB
against/IN
./.
Hopefully/NNP
there/EX
's/VBZ
a/DT
dosage/NN
that/WDT
makes/VBZ
enough/NN
of/IN
the/DT
spike/NN
protein/NN
that/WDT
even/RB
folks/VBP
w/VBP
a/DT
weak/JJ
immune/NN
```

```
  system/NN
  could/MD
  have/VB
  a/DT
  T-cell/NNP
  response/NN
  ./.)
```

```
#VADER MODEL
#note- does not account for relationship between words
#removes stop words - eg and, for ,etc

from nltk.sentiment import SentimentIntensityAnalyzer
from tqdm.notebook import tqdm

sia=SentimentIntensityAnalyzer()
sia
```

```
<nltk.sentiment.vader.SentimentIntensityAnalyzer at 0x1e0ab7630a0>
```

```
# general example of sentiment analysis
sia.polarity_scores("I am having such a wonderful day!")
```

```
{'neg': 0.0, 'neu': 0.501, 'pos': 0.499, 'compound': 0.6114}
```

```
sia.polarity_scores("I am having an awful day")
```

```
{'neg': 0.429, 'neu': 0.571, 'pos': 0.0, 'compound': -0.4588}
```

```
#sentiment analysis of some of the comments from our dataset
data["comment_body"][2376]
```

```
"I think mRNA can be given to partially immunocompromised patients because it doesn't contain any of the virus. Just instructions for your own cells to produce a spike protein which your immune system could try to fight against.\nHopefully there's a dosage that makes enough of the spike protein that even folks w a weak immune system could have a T-cell response."
```

```
sia.polarity_scores(data["comment_body"][2376])
```

```
{'neg': 0.086, 'neu': 0.802, 'pos': 0.112, 'compound': 0.1531}
```

```
data["comment_body"][15000]
```

```
'When is the US trial expected to have results they can submit to the FDA?'
```

```
sia.polarity_scores(data["comment_body"][15000])
```

```
{'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}
```

```
#Running the polarity scores on the entire dataset
res_vader={}
for i, row in tqdm(data.iterrows(),total=len(data)):
                text=row["comment_body"]
                myid=row["comment_id"]
                res_vader[myid]=sia.polarity_scores(text)
```

{"model_id":"f8a390ac314f49888777695fa297650c","version_major":2,"version_minor":0}

```
#results
res_vader
```

```
{'gfx8br4': {'neg': 0.086, 'neu': 0.84, 'pos': 0.074, 'compound': -
0.1779},
 'gfx930g': {'neg': 0.0, 'neu': 0.797, 'pos': 0.203, 'compound':
0.4215},
 'gfxaiv8': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxglf1': {'neg': 0.0, 'neu': 0.875, 'pos': 0.125, 'compound':
0.4588},
 'gfxr0fa': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxj01v': {'neg': 0.0, 'neu': 0.468, 'pos': 0.532, 'compound':
0.9508},
 'gfy5mbt': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxle1u': {'neg': 0.297, 'neu': 0.508, 'pos': 0.195, 'compound': -
0.296},
 'gfxjabl': {'neg': 0.0, 'neu': 0.791, 'pos': 0.209, 'compound':
0.7003},
 'gfxoq5t': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfyboh2': {'neg': 0.044, 'neu': 0.803, 'pos': 0.152, 'compound':
0.9899},
 'gfxi8mv': {'neg': 0.0, 'neu': 0.797, 'pos': 0.203, 'compound':
0.4215},
 'gfxnz47': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxpqvq': {'neg': 0.112, 'neu': 0.787, 'pos': 0.101, 'compound':
0.25},
 'gfxmwvr': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxo1mj': {'neg': 0.271, 'neu': 0.729, 'pos': 0.0, 'compound': -
0.3818},
 'gfy28sn': {'neg': 0.039, 'neu': 0.718, 'pos': 0.243, 'compound':
0.8779},
 'gfydoob': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy7rjz': {'neg': 0.059, 'neu': 0.825, 'pos': 0.116, 'compound':
0.4696},
 'gfxwfpg': {'neg': 0.0, 'neu': 0.865, 'pos': 0.135, 'compound':
0.6486},
 'gfzhklc': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfygl7j': {'neg': 0.0, 'neu': 0.714, 'pos': 0.286, 'compound':
0.802},
```

```
 'gfy5dl6': {'neg': 0.157, 'neu': 0.735, 'pos': 0.108, 'compound': -
0.1779},
 'gfz10eb': {'neg': 0.0, 'neu': 0.967, 'pos': 0.033, 'compound':
0.0387},
 'gfz9wwu': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy44jx': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxglcn': {'neg': 0.0, 'neu': 0.0, 'pos': 1.0, 'compound': 0.6476},
 'gfxhizz': {'neg': 0.0, 'neu': 0.779, 'pos': 0.221, 'compound':
0.6721},
 'gfxs7vo': {'neg': 0.0, 'neu': 0.847, 'pos': 0.153, 'compound':
0.5707},
 'gfy5n35': {'neg': 0.102, 'neu': 0.672, 'pos': 0.226, 'compound':
0.3612},
 'gfxo6gt': {'neg': 0.0, 'neu': 0.318, 'pos': 0.682, 'compound':
0.6468},
 'gfylhrs': {'neg': 0.133, 'neu': 0.691, 'pos': 0.176, 'compound':
0.5258},
 'gfy365t': {'neg': 0.159, 'neu': 0.61, 'pos': 0.231, 'compound':
0.0276},
 'gfylr91': {'neg': 0.453, 'neu': 0.547, 'pos': 0.0, 'compound': -
0.9313},
 'gfxv94x': {'neg': 0.082, 'neu': 0.918, 'pos': 0.0, 'compound': -
0.3612},
 'gfxsjg7': {'neg': 0.0, 'neu': 0.635, 'pos': 0.365, 'compound':
0.7081},
 'gfxt1m7': {'neg': 0.045, 'neu': 0.89, 'pos': 0.065, 'compound': -
0.1383},
 'gfycw1q': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfyj0q4': {'neg': 0.219, 'neu': 0.781, 'pos': 0.0, 'compound': -
0.4215},
 'gfyq4f5': {'neg': 0.0, 'neu': 0.855, 'pos': 0.145, 'compound':
0.296},
 'gfxmzpr': {'neg': 0.0, 'neu': 0.928, 'pos': 0.072, 'compound':
0.4329},
 'gfxr3k3': {'neg': 0.0, 'neu': 0.829, 'pos': 0.171, 'compound':
0.7946},
 'gfy142y': {'neg': 0.0, 'neu': 0.889, 'pos': 0.111, 'compound':
0.3612},
 'gfy4cqc': {'neg': 0.0, 'neu': 0.667, 'pos': 0.333, 'compound':
0.3595},
 'gfyb4eu': {'neg': 0.236, 'neu': 0.692, 'pos': 0.072, 'compound': -
0.7351},
 'gfxa11n': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy1i3l': {'neg': 0.058, 'neu': 0.742, 'pos': 0.201, 'compound':
0.6369},
 'gfxepgs': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxdepy': {'neg': 0.0, 'neu': 0.556, 'pos': 0.444, 'compound':
0.4926},
 'gfxep89': {'neg': 0.037, 'neu': 0.765, 'pos': 0.198, 'compound':
```

```
0.831},
 'gfxf98y': {'neg': 0.0, 'neu': 0.734, 'pos': 0.266, 'compound':
0.4404},
 'gfxm6pe': {'neg': 0.0, 'neu': 0.979, 'pos': 0.021, 'compound':
0.1531},
 'gfxoifc': {'neg': 0.313, 'neu': 0.576, 'pos': 0.112, 'compound': -
0.6808},
 'gfxgyk6': {'neg': 0.0, 'neu': 0.492, 'pos': 0.508, 'compound':
0.7339},
 'gfxkep9': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxe5ge': {'neg': 0.097, 'neu': 0.658, 'pos': 0.245, 'compound':
0.6476},
 'gfxhmrf': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxubhy': {'neg': 0.094, 'neu': 0.877, 'pos': 0.029, 'compound': -
0.836},
 'gfxmuvb': {'neg': 0.0, 'neu': 0.915, 'pos': 0.085, 'compound':
0.5046},
 'gfxi2vt': {'neg': 0.106, 'neu': 0.849, 'pos': 0.045, 'compound': -
0.6428},
 'gfxqyp0': {'neg': 0.106, 'neu': 0.837, 'pos': 0.058, 'compound': -
0.9306},
 'gfxpils': {'neg': 0.032, 'neu': 0.818, 'pos': 0.15, 'compound':
0.9285},
 'gfxrzdw': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfyivis': {'neg': 0.0, 'neu': 0.903, 'pos': 0.097, 'compound':
0.7964},
 'gfyd1dq': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfylgzb': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxv4if': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfygx7x': {'neg': 0.385, 'neu': 0.535, 'pos': 0.08, 'compound': -
0.886},
 'gfylsci': {'neg': 0.0, 'neu': 0.0, 'pos': 1.0, 'compound': 0.5707},
 'gfzyxiv': {'neg': 0.0, 'neu': 0.68, 'pos': 0.32, 'compound':
0.7644},
 'gfxpq6a': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfxq7w3': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy1tx7': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy61e6': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfy5csi': {'neg': 0.158, 'neu': 0.721, 'pos': 0.122, 'compound': -
0.2023},
 'gfyd587': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gfye7tm': {'neg': 0.0, 'neu': 0.582, 'pos': 0.418, 'compound':
0.5562},
 'gfxr47x': {'neg': 0.0, 'neu': 0.683, 'pos': 0.317, 'compound':
0.6249},
 'gfxwqdv': {'neg': 0.12, 'neu': 0.492, 'pos': 0.388, 'compound':
0.5994},
 'gfxrdiw': {'neg': 0.079, 'neu': 0.647, 'pos': 0.274, 'compound':
0.6004},
```

```
 'gfy37ms': {'neg': 0.0, 'neu': 0.58, 'pos': 0.42, 'compound':
0.4404},
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 'ggju6x8': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggkdp4n': {'neg': 0.053, 'neu': 0.849, 'pos': 0.098, 'compound':
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 'ggk1t9j': {'neg': 0.0, 'neu': 0.96, 'pos': 0.04, 'compound':
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 'ggjy8jm': {'neg': 0.032, 'neu': 0.84, 'pos': 0.128, 'compound':
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 'ggjqj74': {'neg': 0.056, 'neu': 0.817, 'pos': 0.127, 'compound':
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 'ggjdn36': {'neg': 0.178, 'neu': 0.822, 'pos': 0.0, 'compound': -
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0.8126},
 'ggjltmu': {'neg': 0.0, 'neu': 0.926, 'pos': 0.074, 'compound':
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 'ggjnrbw': {'neg': 0.0, 'neu': 0.878, 'pos': 0.122, 'compound':
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 'ggldb80': {'neg': 0.076, 'neu': 0.853, 'pos': 0.07, 'compound': -
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 'ggjl6xv': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
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0.8765},
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```

```
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 'ggjkyhu': {'neg': 0.0, 'neu': 0.854, 'pos': 0.146, 'compound':
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 'ggjqmrp': {'neg': 0.0, 'neu': 0.66, 'pos': 0.34, 'compound':
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```

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 'ggk11x0': {'neg': 0.592, 'neu': 0.408, 'pos': 0.0, 'compound': -
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 'ggkbe2i': {'neg': 0.054, 'neu': 0.946, 'pos': 0.0, 'compound': -
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```

```
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 'ggjkqhb': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggjrl21': {'neg': 0.0, 'neu': 0.417, 'pos': 0.583, 'compound':
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 'ggjdy5c': {'neg': 0.185, 'neu': 0.815, 'pos': 0.0, 'compound': -
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 'gglmfmd': {'neg': 0.227, 'neu': 0.773, 'pos': 0.0, 'compound': -
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 'ggl8dls': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
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 'ggk4vpm': {'neg': 0.0, 'neu': 0.678, 'pos': 0.322, 'compound':
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 'ggkm5r6': {'neg': 0.242, 'neu': 0.758, 'pos': 0.0, 'compound': -
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 'ggjnzdl': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggjrwmx': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggk11ud': {'neg': 0.198, 'neu': 0.802, 'pos': 0.0, 'compound': -
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 'ggjpy1o': {'neg': 0.0, 'neu': 0.874, 'pos': 0.126, 'compound':
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 'ggjpdmk': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
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 'ggk32rl': {'neg': 0.139, 'neu': 0.861, 'pos': 0.0, 'compound': -
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```

```
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 'ggjv166': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggk6xe9': {'neg': 0.109, 'neu': 0.891, 'pos': 0.0, 'compound': -
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 'ggjn5vr': {'neg': 0.0, 'neu': 0.714, 'pos': 0.286, 'compound':
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 'ggkpytj': {'neg': 0.0, 'neu': 0.549, 'pos': 0.451, 'compound':
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 'ggjrc8v': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggju92v': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggk1j5v': {'neg': 0.0, 'neu': 0.0, 'pos': 1.0, 'compound': 0.5562},
 'ggkj32j': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'ggjvqwt': {'neg': 0.0, 'neu': 0.278, 'pos': 0.722, 'compound':
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 'gglf0v7': {'neg': 0.0, 'neu': 0.787, 'pos': 0.213, 'compound':
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 'ggjw849': {'neg': 0.288, 'neu': 0.712, 'pos': 0.0, 'compound': -
0.8168},
 'gdz63gi': {'neg': 0.119, 'neu': 0.881, 'pos': 0.0, 'compound': -
0.4019},
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 'gdy99l2': {'neg': 0.0, 'neu': 0.778, 'pos': 0.222, 'compound':
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 'gdy95pp': {'neg': 0.0, 'neu': 0.748, 'pos': 0.252, 'compound':
0.8442},
 'gdyuj24': {'neg': 0.239, 'neu': 0.649, 'pos': 0.112, 'compound': -
0.4854},
 'gdy98hv': {'neg': 0.0, 'neu': 0.899, 'pos': 0.101, 'compound':
0.63},
 'gdy9uis': {'neg': 0.237, 'neu': 0.488, 'pos': 0.275, 'compound':
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 'gdyhmdn': {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0},
 'gdysorz': {'neg': 0.038, 'neu': 0.821, 'pos': 0.141, 'compound':
0.674},
 'gdyqxqk': {'neg': 0.0, 'neu': 0.897, 'pos': 0.103, 'compound':
0.2382},
 ...}

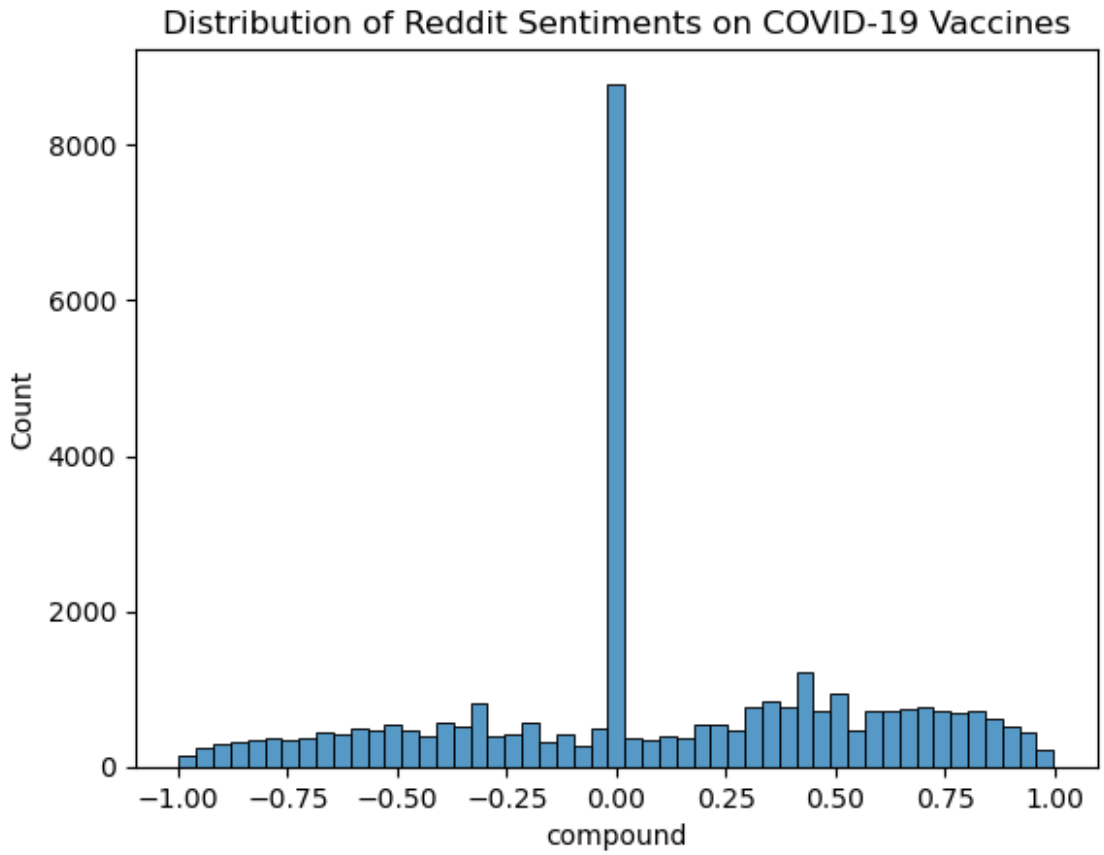
#storing as a dataframe
vaders=pd.DataFrame(res).T
vaders.reset_index().rename(columns={"index":"comment_id"})

      comment_id    neg    neu    pos  compound
0        gfx8br4  0.086  0.840  0.074   -0.1779
1        gfx930g  0.000  0.797  0.203    0.4215
```

```
2        gfxaiv8  0.000  1.000  0.000    0.0000
3        gfxglf1  0.000  0.875  0.125    0.4588
4        gfxr0fa  0.000  1.000  0.000    0.0000
...          ...    ...    ...    ...       ...
34763    gjeuz6w  0.133  0.867  0.000   -0.6486
34764    gjf05tm  0.000  0.721  0.279    0.4767
34765    gjewfw9  0.049  0.918  0.034   -0.3313
34766    gjfxy4u  0.000  1.000  0.000    0.0000
34767    gjexat0  0.267  0.733  0.000   -0.8009

[34768 rows x 5 columns]
```

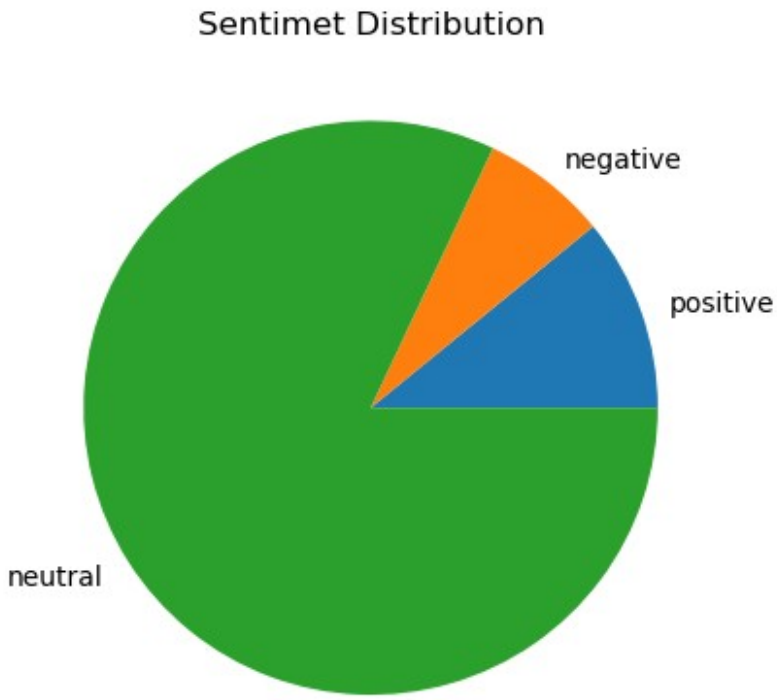
```
#visualization of the coumpond distribution
vader_plot = sns.histplot(data= vaders, x = 'compound')
vader_plot.set_title("Distribution of Reddit Sentiments on COVID-19
Vaccines")
plt.show()
```




```
#most of the comments are neutraal
#However there are more positive than negative comments

#comment distributions based on percentages
vaders_pos = vaders['pos'].mean()
```

```
vaders_neg = vaders['neg'].mean()
vaders_neu = vaders['neu'].mean()
vader_distrib = {'sentiment': ['positive', 'negative', 'neutral'],
'value' : [vaders_pos,vaders_neg, vaders_neu]}
vaders_perc_distrib = pd.DataFrame(vader_distrib)
plt.pie(vaders_perc_distrib['value'],
labels = vaders_perc_distrib['sentiment'])
plt.title("Sentimet Distribution")
plt.show()
```




```
#ROBERTA MODEL
#Advantage: Takes into account the relationship between words

#import hugging face transformer
from transformers import AutoTokenizer
from transformers import AutoModelForSequenceClassification
from scipy.special import softmax

 # using the pretrained base sentiment model
MODEL = f'cardiffnlp/twitter-roberta-base-sentiment'
tokenizer = AutoTokenizer.from_pretrained(MODEL)
model = AutoModelForSequenceClassification.from_pretrained(MODEL)
```

```
#comparison between vader and roberta model
#vader:
data["comment_body"][12350]
```

```
'I agree with you, but the one problem is in your first sentence when
you talk about “the hard-core pre-Covid anti-VAX crowd”.  \n\nHasn’t
that crowd dramatically increased over the last few years?'
```

```
sia.polarity_scores(data["comment_body"][12350])
```

```
{'neg': 0.098, 'neu': 0.742, 'pos': 0.161, 'compound': 0.0772}
```

```
#roberta for the same comment:
encoded_text=tokenizer(data["comment_body"][12350],
return_tensors='pt')
encoded_text
```

```
{'input_ids': tensor([[    0,   100,  2854,    19,    47,     6,
53,     5,    65,   936,
            16,    11,   110,    78,  3645,    77,    47,  1067,
59,    44,
            48,   627,   543,    12,  7293,  1198,    12,   347,
1417,   808,
          1475,    12,  9788,  1000,  2180,    17,    46,     4,
1437,  1437,
         50118, 50118, 35634,   282,    17,    27,    90,    14,
2180,  8617,
          1130,    81,     5,    94,   367,   107,   116,     2]]),
'attention_mask': tensor([[1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 1, 1, 1,
         1, 1, 1, 1, 1, 1, 1, 1, 1, 1]])}
```

```
output=model(**encoded_text)
scores=output[0][0].detach().numpy()
scores=softmax(scores)
scores
scores_dict={
    'roberta_neg':scores[0],
    'roberta_neu':scores[1],
    'roberta_pos':scores[2]}
scores_dict
```

```
{'roberta_neg': 0.6059013, 'roberta_neu': 0.361681, 'roberta_pos':
0.032417737}
```

```
#roberta is more powerful/accurate
```

```
def polarity_scores_roberta(examample):
    encoded_text=tokenizer(data["comment_body"][12350],
```

```
return_tensors='pt')
    output=model(**encoded_text)
    scores=output[0][0].detach().numpy()
    scores=softmax(scores)
    scores_dict={
     'roberta_neg':scores[0],
     'roberta_neu':scores[1],
     'roberta_pos':scores[2]}
    return scores_dict

#random sample of 500 from the 34k comments to run the vader model
sampled_data = data[:500]
sampled_data
```

```
    post_id   post_author            post_date  \
0    kdmkbz  KinnerNevada  2020-12-15 14:21:20
1    kdmkbz  KinnerNevada  2020-12-15 14:21:20
2    kdmkbz  KinnerNevada  2020-12-15 14:21:20
3    kdmkbz  KinnerNevada  2020-12-15 14:21:20
4    kdmkbz  KinnerNevada  2020-12-15 14:21:20
..      ...           ...                  ...
495  kh3tuv     FredoSosa  2020-12-20 22:26:36
496  kh3tuv     FredoSosa  2020-12-20 22:26:36
497  kh3tuv     FredoSosa  2020-12-20 22:26:36
498  kh3tuv     FredoSosa  2020-12-20 22:26:36
499  kh3tuv     FredoSosa  2020-12-20 22:26:36

                                          post_title  post_score  \
0    Moderna's vaccine is highly effective, FDA say...       42481
1    Moderna's vaccine is highly effective, FDA say...       42481
2    Moderna's vaccine is highly effective, FDA say...       42481
3    Moderna's vaccine is highly effective, FDA say...       42481
4    Moderna's vaccine is highly effective, FDA say...       42481
..                                                 ...         ...
495  U.S. Has Administered 556,208 Vaccine Shots in...       38370
496  U.S. Has Administered 556,208 Vaccine Shots in...       38370
497  U.S. Has Administered 556,208 Vaccine Shots in...       38370
498  U.S. Has Administered 556,208 Vaccine Shots in...       38370
499  U.S. Has Administered 556,208 Vaccine Shots in...       38370

                                        post_permalink  \
0    /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
1    /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
2    /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
3    /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
4    /r/Coronavirus/comments/kdmkbz/modernas_vaccin...
..                                                 ...
495  /r/Coronavirus/comments/kh3tuv/us_has_administ...
496  /r/Coronavirus/comments/kh3tuv/us_has_administ...
497  /r/Coronavirus/comments/kh3tuv/us_has_administ...
```

```
498  /r/Coronavirus/comments/kh3tuv/us_has_administ...
499  /r/Coronavirus/comments/kh3tuv/us_has_administ...

                                                post_url comment_id  \
0    https://www.nbcnews.com/health/health-news/mod...    gfx8br4
1    https://www.nbcnews.com/health/health-news/mod...    gfx930g
2    https://www.nbcnews.com/health/health-news/mod...    gfxaiv8
3    https://www.nbcnews.com/health/health-news/mod...    gfxglf1
4    https://www.nbcnews.com/health/health-news/mod...    gfxr0fa
..                                                 ...        ...
495  https://www.bloomberg.com/news/articles/2020-1...    ggix6um
496  https://www.bloomberg.com/news/articles/2020-1...    ggiz8h1
497  https://www.bloomberg.com/news/articles/2020-1...    ggj79pf
498  https://www.bloomberg.com/news/articles/2020-1...    ggjpoiv
499  https://www.bloomberg.com/news/articles/2020-1...    ggjcdjl

          comment_author         comment_date comment_parent_id  \
0          AutoModerator  2020-12-15 14:21:21         t3_kdmkbz
1           Hothabanero6  2020-12-15 14:28:43         t3_kdmkbz
2              jsinkwitz  2020-12-15 14:42:16         t3_kdmkbz
3    TheyreGoodDogsBrent  2020-12-15 15:36:09         t3_kdmkbz
4              BG1234567  2020-12-15 17:01:14         t3_kdmkbz
..                   ...                  ...               ...
495        AutoModerator  2020-12-20 22:26:37         t3_kh3tuv
496             elcuervo  2020-12-20 22:44:09         t3_kh3tuv
497             thinpile  2020-12-20 23:54:06         t3_kh3tuv
498       musicobsession  2020-12-21 02:40:03         t3_kh3tuv
499               MookieT  2020-12-21 00:38:44         t3_kh3tuv

    comment_edited  comment_score  \
0            False             1
1            False          1784
2            False          1905
3            False          3503
4            False           326
..             ...           ...
495          False             1
496   1608562999.0          4683
497          False          1428
498          False           379
499          False           437

                                          comment_body
0    This post appears to be about vaccines, please...
1    Who's ahead in the pool for the third vaccine ...
2    "asymptomatic infection was reduced by 63 perc...
3    > and appears to prevent the spread of the vir...
4    The fact that there are multiple companies mak...
..                                                 ...
495  This post appears to be about vaccines, please...
```

```
496  I'm glad to see the CDC is keeping count. I ho...
497  If this number is accurate, I'm fairly impress...
498  It's insane to see my health professional frie...
499  Moderna shipments are already arriving at door...

[500 rows x 14 columns]
```

```
res={}
for i, row in tqdm(sampled_data.iterrows(),total=len(sampled_data)):
                try:
                    text=row["comment_body"]
                    myid=row["comment_id"]
                    vader_result=sia.polarity_scores(text)
                    vader_result_rename={}
                    for key, value in vader_result.items():
                        vader_result_rename[f'vader_{key}']=value
                    roberta_result=polarity_scores_roberta(text)
                    both={**vader_result_rename,**roberta_result}
                    res[myid]=both
                except RuntimeError:
                    print(f'Broke for id{myid}')
```


```
{"model_id":"b83333db2ee047f38cad6e8de9759093","version_major":2,"vers
ion_minor":0}
```


```
results_roberta=pd.DataFrame(res).T
results_roberta.head()
```

```
         vader_neg  vader_neu  vader_pos  vader_compound  roberta_neg
\
gfx8br4      0.086      0.840      0.074         -0.1779     0.605901

gfx930g      0.000      0.797      0.203          0.4215     0.605901

gfxaiv8      0.000      1.000      0.000          0.0000     0.605901

gfxglf1      0.000      0.875      0.125          0.4588     0.605901

gfxr0fa      0.000      1.000      0.000          0.0000     0.605901

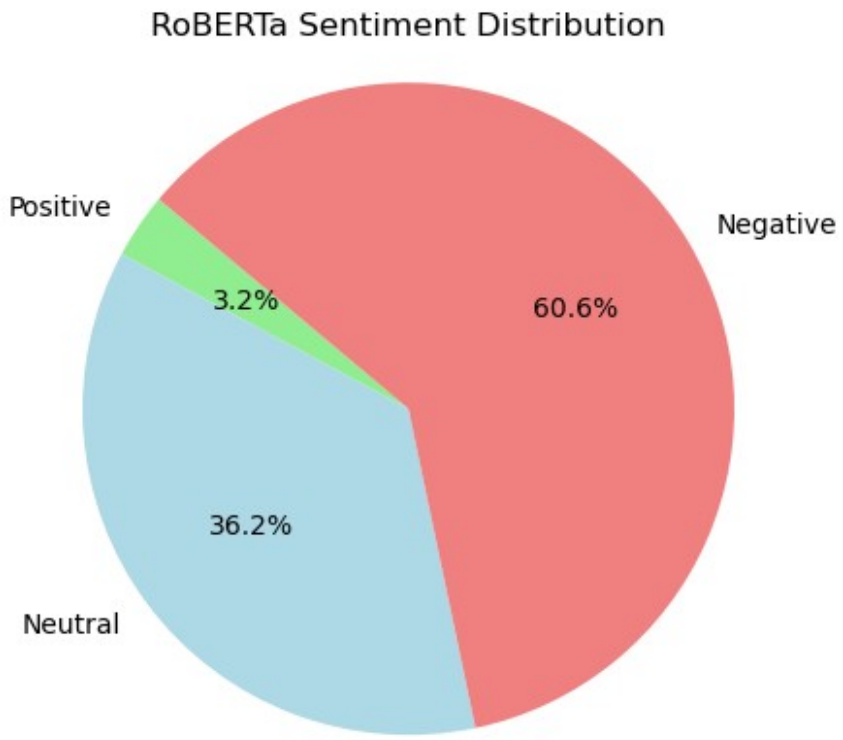

         roberta_neu  roberta_pos
gfx8br4     0.361681     0.032418
gfx930g     0.361681     0.032418
gfxaiv8     0.361681     0.032418
gfxglf1     0.361681     0.032418
gfxr0fa     0.361681     0.032418
```

```
#NOTE: ROBERTA MODEL DOES NOT GIVE A COMPOUND SENTIMENT; ONLY
POSITIVE, NEGATIVE AND NEUTRAL.
```

```
#visualization of the roberta sentiments
roberta_pos = results_roberta['roberta_pos'].sum()
roberta_neu = results_roberta['roberta_neu'].sum()
roberta_neg = results_roberta['roberta_neg'].sum()

# Data for the pie chart
labels = ['Positive', 'Neutral', 'Negative']
sizes = [roberta_pos, roberta_neu, roberta_neg]
colors = ['lightgreen', 'lightblue', 'lightcoral']

# Plotting the pie chart
plt.pie(sizes, labels=labels, colors=colors, autopct='%1.1f%%',
startangle=140)
plt.title('RoBERTa Sentiment Distribution')
plt.axis('equal')  # Equal aspect ratio ensures that pie is drawn as a
circle.
plt.show()
```




```
#conclusion: The vader model indicated that majority of the comments
were neutral.
#Roberta model indicated that majority were negative
```