

In [1]:

```
import pandas as pd

tweets = pd.read_csv(r'C:\Users\daksh\Desktop\SMA Tweets\tweets.csv')

tweets
```

C:\Users\daksh\anaconda3\lib\site-packages\IPython\core\interactiveshell.p
y:3165: DtypeWarning: Columns (0,1,2,3,4,5,6,7,11,12,13,14,15,16,17,18) ha
ve mixed types.Specify dtype option on import or set low_memory=False.
has_raised = await self.run_ast_nodes(code_ast.body, cell_name,

Out[1]:

	Datetime	Tweet Id	Text	Username	
0	2022-02-24 03:12:47+00:00	1496684505247141888.0	UA Massive explosions rocks #Kharkiv. #Russia ...	IdeologyWars	https://
1	2022-02-24 03:18:54+00:00	1496686044275695616.0	UA Kharkiv is officially being struck by major...	IdeologyWars	https://
2	2022-02-24 03:22:42+00:00	1496687000375726080.0	UA More angles on that strike in Kharkiv. #Rus...	IdeologyWars	https://
3	2022-02-24 03:25:36+00:00	1496687731434565632.0	UA BM-21 Grad strikes opening on #Mariupol cit...	IdeologyWars	https://
4	2022-02-24 03:27:28+00:00	1496688201242759168.0	UA Damage caused by strike in Kharkiv... #Russ...	IdeologyWars	https://
...
399851	2022-03-27 23:59:26+00:00	1508232258037112834	Russia's mass media and telecommunications wat...	RenKeNews	https://tw
399852	2022-03-27 23:59:27+00:00	1508232263930105861	@tony07653102 @CNEWS Pour comprendre un confli...	philmarso	https://
399853	2022-03-27 23:59:34+00:00	1508232290413219841	Putin ukrajinske vojnike naziva neonacizmom, a...	dicke5	https://
399854	2022-03-27 23:59:44+00:00	1508232332289126401	Watch: amid war ruins in #Ukraine, unbowed cla...	vsdawson_MUFC	https://twi
399855	2022-03-27 23:59:45+00:00	1508232337229852679	#britishsummertime started on Sunday 27th.\n\n...	satillus	https

399856 rows × 20 columns



In [10]:

```
len(tweets)
```

Out[10]:

399856

In [2]:

```
index = [ i for i in range(len(tweets))]
```

In [3]:

```
tweets['Index'] = index
```

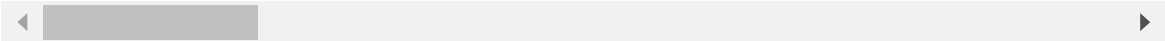
In [4]:

```
tweets.set_index('Index')
```

Out[4]:

	Datetime	Tweet Id	Text	Username	
Index					
0	2022-02-24 03:12:47+00:00	1496684505247141888.0	ua Massive explosions rocks #Kharkiv. #Russia ...	IdeologyWars	https://
1	2022-02-24 03:18:54+00:00	1496686044275695616.0	ua Kharkiv is officially being struck by major...	IdeologyWars	https://
2	2022-02-24 03:22:42+00:00	1496687000375726080.0	ua More angles on that strike in Kharkiv. #Rus...	IdeologyWars	https://
3	2022-02-24 03:25:36+00:00	1496687731434565632.0	ua BM-21 Grad strikes opening on #Mariupol cit...	IdeologyWars	https://
4	2022-02-24 03:27:28+00:00	1496688201242759168.0	ua Damage caused by strike in Kharkiv... #Rus...	IdeologyWars	https://
...
399851	2022-03-27 23:59:26+00:00	1508232258037112834	Russia's mass media and telecommunications wat...	RenKeNews	https://tw
399852	2022-03-27 23:59:27+00:00	1508232263930105861	@tony07653102 @CNEWS Pour comprendre un confli...	philmarso	https://
399853	2022-03-27 23:59:34+00:00	1508232290413219841	Putin ukrajinske vojnike naziva neonacizmom, a...	dicke5	https://
399854	2022-03-27 23:59:44+00:00	1508232332289126401	Watch: amid war ruins in #Ukraine, unbowed cla...	vsdawson_MUFC	https://twi
399855	2022-03-27 23:59:45+00:00	1508232337229852679	#britishsummertime started on Sunday 27th.\n\n...	satillus	https

399856 rows × 20 columns



In [24]:

```
import nltk
nltk.download('stopwords')
list_stopwords = stopwords.words('english')
print(list_stopwords)
```

```
['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't"]
```

In [6]:

```
list_stopwords.append('UA')
```

In [7]:

```
print(list_stopwords)
```

```
['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't", 'UA']
```

In [65]:

```
tweets_compress = pd.DataFrame(columns = tweets.columns)
```

In [66]:

```
import random
for i in range(3000):
    index = random.randint(0, 10000)
    if tweets['Language'][index] == 'en':
        rows = tweets.loc[[index]]
        tweets_compress = tweets_compress.append(rows, ignore_index=True)
```

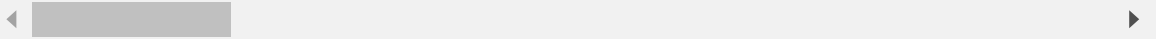
In [67]:

tweets_compress

Out[67]:

	Datetime	Tweet Id	Text	Username	
0	2022-03-07 13:04:28+00:00	1500819674170286080.0	I've just booked a two night stay in Kiev, Ukr...	chazsnell	https://twit
1	2022-03-04 17:50:00+00:00	1499804364835364864.0	Given #Russia's considerable foreign exchange ...	orfonline	https://twi
2	2022-03-04 18:53:43+00:00	1499820399202295808.0	Wow, one of my favorite actresses thank you mi...	AnaMelanyAmaya2	https://twitter
3	2022-03-20 22:01:08+00:00	1505665769824473088.0	Ukraine's Zelenskiy presses Israel for missile...	sightmagazine	https://twit
4	2022-03-08 22:32:50+00:00	1501325094324367360.0	European oil receipts boosting Putin's war che...	MovieXen	https://twitte
...
1854	2022-03-04 06:34:56+00:00	1499634479576621056.0	A recap #PutinOligarchs #Oligarchy & the #...	K08345975	https://twitter
1855	2022-03-16 04:19:43+00:00	1503949104518512640.0	Anyone wants a good #daybyday #ukrainewar news...	driftlesstony	https://t
1856	2022-03-02 19:37:52+00:00	1499106733972729856.0	Heerak Christian Kim, @GOP candidate for #USA ...	Heerak4Congress	https://twitte
1857	2022-03-09 18:30:00+00:00	1501626371298238464.0	RETREADCAST: Catch up on the latest #Retreadca...	RetreadBusiness	https://twit
1858	2022-03-08 07:48:54+00:00	1501102643489697792.0	Just 300 Ukrainian refugees granted visas to c...	MovieXen	https://twitte

1859 rows × 21 columns



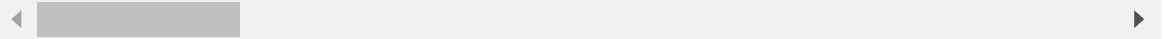
In [68]:

```
tweets_compress.sort_values('Index')
```

Out[68]:

	Datetime	Tweet Id	Text	Username	
550	2022-02-24 03:36:10+00:00	1496690389364977664.0	UA Air raid sirens are apparently in #Kyiv. #R...	IdeologyWars	https://twitter.c
1128	2022-02-24 03:38:11+00:00	1496690894480752640.0	UA Mariupol right now. #Russia #Ukraine #Ukrai...	IdeologyWars	https://twitter.c
807	2022-02-24 03:43:16+00:00	1496692177107304448.0	UA Saratov right now, turboprops can be heard....	IdeologyWars	https://twitter.c
1009	2022-02-24 03:46:01+00:00	1496692868089454592.0	Ahahahaha @POTUS wont speak until tomorrow! Do...	ProudLatina213	https://twitter.c
1172	2022-02-24 03:54:07+00:00	1496694906517180416.0	UA Dnepropetrovsk strike in the past few minut...	IdeologyWars	https://twitter.c
...
637	2022-03-21 02:39:24+00:00	1505735797609226240.0	"Go back home" #Ukraine people forcing 2 #Rus...	ali_saad_ali	https://twitter
1062	2022-03-21 05:18:16+00:00	1505775779505836032.0	Russia-Ukraine war LIVE: 4 dead in Kyiv shelli...	Oneindia	https://twitter.cc
1711	2022-03-21 05:33:03+00:00	1505779499912159232.0	#JSW Steel Seshagiri Rao Speaks On Coking Coal...	mithun1500	https://twitter.cc
1469	2022-03-21 05:48:59+00:00	1505783507867430912.0	#UkraineConflict. Ammonia leak from Chemical p...	TQuantums	https://twitter.cor
143	2022-03-21 06:08:12+00:00	1505788345724641280.0	This is a tough read for any of us in our safe...	nick_carus	https://twitter.c

1859 rows × 21 columns



In [69]:

```
index = [i for i in range(len(tweets_compress))]
```

In [70]:

```
tweets_compress['Index'] = index
```

In [71]:

```
tweets_compress.set_index('Index')
```

Out[71]:

	Datetime	Tweet Id	Text	Username	
Index					
0	2022-03-07 13:04:28+00:00	1500819674170286080.0	I've just booked a two night stay in Kiev, Ukr...	chazsnell	https://twi
1	2022-03-04 17:50:00+00:00	1499804364835364864.0	Given #Russia's considerable foreign exchange ...	orfonline	https://tw
2	2022-03-04 18:53:43+00:00	1499820399202295808.0	Wow, one of my favorite actresses thank you mi...	AnaMelanyAmaya2	https://twitte
3	2022-03-20 22:01:08+00:00	1505665769824473088.0	Ukraine's Zelenskiy presses Israel for missile...	sightmagazine	https://twi
4	2022-03-08 22:32:50+00:00	1501325094324367360.0	European oil receipts boosting Putin's war che...	MovieXen	https://twitt
...
1854	2022-03-04 06:34:56+00:00	1499634479576621056.0	A recap #PutinOligarchs #Oligarchy & the #...	K08345975	https://twitte
1855	2022-03-16 04:19:43+00:00	1503949104518512640.0	Anyone wants a good #daybyday #ukrainewar news...	driftlesstony	https://
1856	2022-03-02 19:37:52+00:00	1499106733972729856.0	Heerak Christian Kim, @GOP candidate for #USA ...	Heerak4Congress	https://twitt
1857	2022-03-09 18:30:00+00:00	1501626371298238464.0	RETREADCAST: Catch up on the latest #Retreadca...	RetreadBusiness	https://twi
1858	2022-03-08 07:48:54+00:00	1501102643489697792.0	Just 300 Ukrainian refugees granted visas to c...	MovieXen	https://twitt

1859 rows × 20 columns

In [81]:

```
tweets_compress['Text Without Stop Words'] = ''
```

In [82]:

```
temp = []
for text in tweets_compress['Text']:
    text = str(text)
    words = [word for word in text.split() if word.lower() not in list_stopwords]
    new_text = " ".join(words)
    temp.append(new_text)

tweets_compress['Text Without Stop Words'] = temp
```

In [87]:

```
tweets_compress['Text Without Stop Words']
```

Out[87]:

```
0      I've booked two night stay Kiev, Ukraine airbn...
1      Given #Russia's considerable foreign exchange ...
2      Wow, one favorite actresses thank mila kunis c...
3      Ukraine's Zelenskiy presses Israel missile def...
4      European oil receipts boosting Putin's war che...
...
1854    recap #PutinOligarchs #Oligarchy & #GOP #P...
1855    Anyone wants good #daybyday #ukrainewar news m...
1856    Heerak Christian Kim, @GOP candidate #USA #Con...
1857    RETREADCAST: Catch latest #Retreadcast feature...
1858    300 Ukrainian refugees granted visas come UK ....
Name: Text Without Stop Words, Length: 1859, dtype: object
```

In [85]:

```
tweets_compress.to_csv(r'C:\Users\daksh\Desktop\SMA Tweets\tweets_compress.csv')
```