```
In [1]:
import pandas as pd
In [2]:
data = pd.read csv('fulltext_cleaned.csv')
In [3]:
data.columns
Out[3]:
Index(['uid', 'full text', '5g', 'abortion', 'aliens', 'antiasian',
        'antiblack', 'antiimmigrant', 'antilatinx', 'antilgbt', 'antimuslim',
        'antisemitic', 'antivaxx', 'biden', 'bigtech', 'climatedenial', 'coronavirus', 'criticalracetheory', 'misogyny', 'presidentbiden',
        'pseudoscience', 'qanon', 'voterfraud', 'votinglaws', 'whitesupremacy'],
      dtype='object')
In [6]:
compressed = data.iloc[:,2:].idxmax(axis=1)
In [14]:
data compressed = pd.DataFrame(compressed, columns=['label'])
In [15]:
data compressed
Out[15]:
                label
     0
            voterfraud
     1 whitesupremacy
             antilatinx
     3
                biden
              bigtech
108920
           coronavirus
108921
        presidentbiden
108922
             antiasian
108923
                biden
108924
            voterfraud
108925 rows × 1 columns
In [17]:
df - data.iloc[:,:2].join(data compressed)
In [33]:
dÍ
Out[33]:
```

full tout

	uıu uid	iuii_text full_text	iauei label
0	380117	michigan secretary state jocelyn benson pictur	voterfraud
1	448712	joe hall former marine handyman currently lay	whitesupremacy
2	256646	politics entertainment media economy world lon	antilatinx
3	256646	politics entertainment media economy world lon	biden
4	406930	thomas consider conservative high court make p	bigtech
108920	402163	chinese communist party s cyberspace administr	coronavirus
108921	402163	chinese communist party s cyberspace administr	presidentbiden
108922	402163	chinese communist party s cyberspace administr	antiasian
108923	319881	president joe biden cancel monday trip state d	biden
108924	188013	days reveal 2020 us elections rig canadian cro	voterfraud
In [20]:	3 columns	
label_	_total_	count = pd.DataFrame(df.groupby('la	bel').size()
In [23]:		
label_	_total_	count.reset_index(inplace=True)	
In [31]:		
label_	_total_	count.rename(columns = {0:'total_la	bel_count'},
In [32]:		
label	total	count	

Out[32]:

	label	total_label_count
0	5g	243
1	abortion	1519
2	aliens	14
3	antiasian	789
4	antiblack	1128
5	antiimmigrant	3687
6	antilatinx	4222
7	antilgbt	4006
8	antimuslim	2744
9	antisemitic	1457
10	antivaxx	304
11	biden	40165
12	bigtech	3986
13	climatedenial	156
14	coronavirus	12440
15	criticalracetheory	28
16	misogyny	656
17	presidentbiden	2631
18	pseudoscience	341

```
total_label_coupt
           qanon
19
20
        voterfraud
                         19093
21
        votinglaws
                          120
22
    whitesupremacy
                          8925
In [34]:
from sklearn.model selection import train test split
train, test = train test split(df, test size=0.2, stratify=df['label'])
In [37]:
train label count = pd.DataFrame(train.groupby('label').size())
train_label_count.reset_index(inplace=True)
In [39]:
train_label_count.rename(columns={0:'train_count'}, inplace=True)
In [40]:
test label count = pd.DataFrame(test.groupby('label').size())
test label count.reset index(inplace=True)
In [41]:
test label count.rename(columns={0:'test count'}, inplace=True)
In [51]:
label_count = label_total_count.merge(train_label_count.merge(test_label_count)).reset i
ndex()
In [53]:
label count.rename(columns={'index':'label index'}, inplace=True)
In [55]:
label count['label index'] = label count['label index'] + 1
In [56]:
label count
Out[56]:
```

	label_index	label	total_label_count	train_count	test_count
0	1	5g	243	194	49
1	2	abortion	1519	1215	304
2	3	aliens	14	11	3
3	4	antiasian	789	631	158
4	5	antiblack	1128	902	226
5	6	antiimmigrant	3687	2950	737
6	7	antilatinx	4222	3378	844
7	8	antilgbt	4006	3205	801
8	9	antimuslim	2744	2195	549
9	10	antisemitic	1457	1166	291
10	11	antivaxx	304	243	61
11	12	biden	40165	32132	8033

12	label_index	l abel bigtech	total_label_count	train_count	test_count
13	14	climatedenial	156	125	31
14	15	coronavirus	12440	9952	2488
15	16	criticalracetheory	28	22	6
16	17	misogyny	656	525	131
17	18	presidentbiden	2631	2105	526
18	19	pseudoscience	341	273	68
19	20	qanon	271	217	54
20	21	voterfraud	19093	15274	3819
21	22	votinglaws	120	96	24
22	23	whitesupremacy	8925	7140	1785

In [57]:

```
label_count.to_csv('label_count.csv', index=False)
```

In [59]:

```
train.reset_index(inplace=True, drop=True)
```

In [61]:

```
test.reset_index(inplace=True, drop=True)
```

In [62]:

```
train_one_hot = pd.get_dummies(train['label'])
train.drop(columns = 'label', axis=1, inplace=True)
train_set = train.join(train_one_hot)

/opt/anaconda3/lib/python3.8/site-packages/pandas/core/frame.py:4906: SettingWithCopyWarn ing:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_g uide/indexing.html#returning-a-view-versus-a-copy
```

In [63]:

train set

return super().drop(

Out[63]:

ı	uid full_text	5 g	abortion	aliens	antiasian	antiblack	antiimmigrant	antilatinx	antilgbt	climatedenial c
0 4450	long post key insight 020 greatly inspire encourag	0	0	0	0	0	0	0	0	0
1 3166	arizona state senate 622 announce friday hire inde	0	0	0	0	0	0	0	0	0
2 2255	washington post thursday promote create politi	0	0	0	0	0	0	0	0	0
3 2533	politics entertainment 398 media	0	0	0	0	0	0	0	0	0

	uid	economy world on:	5 g	abortion	aliens	antiasian	antiblack	antiimmigrant	antilatinx	antilgbt	(climatedenial o
4	276629	biden soon president jihad resume iran parliam	0	0	0	0	0	0	0	0		0
87135	344961	posters mocking biden fa uci covid mandates ap	0	0	0	0	0	0	0	0		0
87136	171143	jim h of t founder editor gateway pundit one t	0	0	0	0	0	0	0	0		0
87137	629035	moment every donald trump opponent wait hand j	0	0	0	0	0	0	0	0		0
87138	245640	oath keepers non-partisan association current	0	0	0	0	0	0	0	0		0
87139	147311	new listen fox news article owner delaware com	0	0	0	0	0	0	0	0		0

87140 rows × 25 columns

In [64]:

test_one_hot = pd.get_dummies(test['label'])
test.drop(columns = 'label', axis=1, inplace=True)
test_set = test.join(test_one_hot)

/ opt/anaconda 3/lib/python 3.8/site-packages/pandas/core/frame.py: 4906: Setting With Copy Warning:

A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_g uide/indexing.html#returning-a-view-versus-a-copy return super().drop(

In [65]:

test_set

Out[65]:

	uid	full_text	5g	abortion	aliens	antiasian	antiblack	antiimmigrant	antilatinx	antilgbt	 climatedenial	C(
0	305823	president joe biden slash thousand union job f	0	0	0	0	0	0	0	0	 0	
1	897854	stacey abrams- founded group sues georgia voter	0	0	0	0	0	0	0	0	 0	
		tuesday 3										

2	uid 200770	pm fellstent	5 g	abortion	aliens	antiasian 0	antiblack 0	antiimmigrant	antilatinx	antilgbt .	climatedenial co
		dr shiva ayya dura i joe									•
3	201901	encode utf-8 2016 election republicans publicl	0	0	0	0	0	0	0	0 .	0
4	237478	official never hear doctor argument debate soo	0	0	0	0	0	0	0	0 .	0
21780	413909	im white think im racist that s bs eric bollin	0	0	0	0	0	0	0	0 .	0
21781	185142	far spontaneous mythical today militant politi	0	0	0	0	0	0	0	0 .	0
21782	218608	left wing medium outlet vox publish piece tues	0	0	0	0	0	0	0	0 .	0
21783	399665	trump blast joe biden blistering statement wed	0	0	0	0	0	0	0	0 .	0
21784	472468	pete iowa three word 2020 fill pride day born	0	0	0	0	0	0	0	1 .	0
21785 rows × 25 columns											
4											Þ
In [6	6]:										

train set.to csv('fulltext cleaned train.csv', index=False)
test_set.to_csv('fulltext_cleaned_test.csv', index=False)

In []: