

# Final\_Project\_2

March 10, 2023

## Influencer

```
[1]: import pandas as pd
import numpy as np
pd.set_option('display.max_colwidth', None)
pd.reset_option('display.max_rows')
from pyspark.sql.functions import *
from pyspark.sql.types import *
import matplotlib.pyplot as plt
warnings.filterwarnings(action='ignore')
```

```
[2]: from pyspark.sql import SparkSession
from pyspark import SparkContext
from pyspark.sql import SQLContext
from pyspark.sql import Row
from pyspark.sql.functions import col
```

```
[3]: spark.conf.set("spark.sql.repl.eagerEval.enabled", True)
```

```
[4]: %%time
twitter = spark.read.parquet('gs://chen26-bdp/original_data')
```

CPU times: user 7.42 ms, sys: 3.87 ms, total: 11.3 ms

Wall time: 7.96 s

23/03/05 03:12:14 WARN org.apache.spark.sql.catalyst.util.package: Truncated the string representation of a plan since it was too large. This behavior can be adjusted by setting 'spark.sql.debug.maxToStringFields'.

```
[5]: # original posts
```

```
[5]: keywords = ['college', 'high', 'university', 'students',
                , 'public', 'private', 'secondary', 'primary', 'education',
                ↪ 'undergraduate', 'graduate']
twitter = twitter.withColumn('lower', lower(col('text')))
filter_twitter = twitter.filter(col('lower').rlike('|'.join(keywords)))
twitter_eng = filter_twitter.filter(col('lang') == 'en')
from pyspark.sql import functions as F
```

```

from pyspark.sql import types as t
from pyspark.sql.types import ArrayType, IntegerType, BooleanType

eng_ord=F.udf(lambda x: [ord(a) for a in x],t.ArrayType(IntegerType()))

def english_filter(x):
    for index in range(len(x)):
        if x[index] > 128:
            return False
        else:
            return True

filter_udf = F.udf(english_filter, BooleanType())
tweets = twitter_eng.filter(filter_udf(eng_ord('text')) == True)

```

```

[11]: data = tweets.
      ↪select('user','created_at','extended_tweet','retweeted_status','text','id','retweeted_from'

```

```

[12]: data = data.withColumn("user_id", col("user").getItem("id")).\
      withColumn('user_name', col('user').getItem('screen_name')).\
      withColumn('user_loc',col('user').getItem('location')).\
      withColumn('user_descrip',col('user').getItem('description')).\
      withColumn('user_followerct',col('user').
      ↪getItem('followers_count')).\
      select('user_id', 'user_name', 'user_loc',□
      ↪'user_descrip', 'user_followerct',
      □
      ↪'created_at', 'text', 'extended_tweet', 'retweeted_status', 'id', 'retweeted_from')

```

```

[13]: data = data.withColumn('retweet_ct', col('retweeted_status').
      ↪getItem('retweet_count')).\
      withColumn('retweet', col('retweeted_status').getItem('retweeted')).
      ↪drop('retweeted_status')

```

```

[15]: data = data.withColumn('full_text',col('extended_tweet').getItem('full_text')).
      ↪drop('extended_tweet')

```

```

[16]: data = data.withColumn('full_text', coalesce(data.full_text, data.text))
      data = data.drop('text')

```

```

[17]: original = data.filter(col('retweet').isNull())
      retweet = data.filter(col('retweet').isNotNull())

```

```

[18]: ori_ct = original.groupby('user_id').count().sort(col('count').desc())
      ori_ct.show()

```

[Stage 3:=====>

(6 + 7) / 13]

user_id	count
1128225338775953408	12520
219401992	9201
1508968207259869185	7769
66263683	6809
1576939116230455296	6780
1577029442488061953	6609
1463182041147576321	6549
879496394691805184	6337
1582053513357537293	6241
1473922978073165834	6178
1422259384525090818	6039
1338108136561856517	5823
1214364378150998019	5776
1597301580914601985	5658
73707872	5624
1329639203144011776	5289
901030512	5263
1472159008886870028	5209
2203526911	5162
1468164097355264002	5139

only showing top 20 rows

```
[19]: ori_followerct = original.groupby('user_id').agg(max('user_followerct').
↳ alias('Max_reach'))
ori_followerct.show()
```

[Stage 4:=====>(1322 + 1) / 1323]

user_id	Max_reach
726281982	55
2876988698	115
2883454026	149
44464351	399
2249344528	1477
632413348	794
51792862	398
1354752901	764
2944855720	96
4011593092	315
1288857011732402182	89

	161389551	14911
	1595643056	837
	501359563	57
	4033589842	5
	954659082	2
	396940133	83
	3167076418	452
	229980955	312
	4779708921	72

+-----+-----+

only showing top 20 rows

```
[ ]: ori_name = original.groupby('user_id').agg(max('user_name').alias('user_name'))
ori_name.show()
```

[Stage 9:>

(0 + 1) / 1]

+-----+-----+
user_id     user_name
+-----+-----+
414       veen
418       dens
926  bradbarrish
1497       harper
1547     LizDunn
2900  jeffisageek
3252     odannyboy
4509  andyabramson
4603       jem27
4872     bradlau
5107       mb
7499       Naija
8264     alicia
10078  reidhoffman
10178     stoweboyd
10237 Chuckumentary
10422     pleitch
10425     courtneyrau
10695 briansweeting
10715     dylanbland

+-----+-----+

only showing top 20 rows

```
[21]: user = ori_ct.join(ori_name, ori_ct.user_id == ori_name.user_id, 'inner').
      ↪drop(ori_name['user_id'])
```

```
[22]: user.show()
```

[Stage 14:>

(0 + 1) / 1]

```
+-----+-----+-----+
|count|user_id|  user_name|
+-----+-----+-----+
|   1|   414|      veen|
|   2|   418|      dens|
|   1|   926| bradbarrish|
|   3|  1497|      harper|
|   1|  1547|    LizDunn|
|   1|  2900| jeffisageek|
|   3|  3252|    odannyboy|
|   3|  4509| andyabramson|
|   2|  4603|      jem27|
|   1|  4872|    bradlau|
|   1|  5107|         mb|
|   1|  7499|      Naija|
|   4|  8264|    alicia|
|   4| 10078| reidhoffman|
|   1| 10178|    stoweboyd|
|   4| 10237|Chuckumentary|
|   1| 10422|    pleitch|
|   3| 10425|    courtneyrau|
|   1| 10695|briansweeting|
|   1| 10715|    dylanbland|
+-----+-----+-----+
only showing top 20 rows
```

```
[ ]: user_df = user.join(ori_followerct, user.user_id == ori_followerct.user_id,
      ↪'inner').drop(ori_followerct['user_id'])
      user_df.show()
```

[Stage 21:>

(0 + 1) /

```
1]323]
+-----+-----+-----+-----+
|count|user_id|  user_name|Max_reach|
+-----+-----+-----+-----+
|   1|   414|      veen|    39559|
|   2|   418|      dens|    83191|
|   1|   926| bradbarrish|    2822|
```

	3	1497	harper	38084
	1	1547	LizDunn	1525
	1	2900	jeffisageek	8083
	3	3252	odannyboy	31824
	3	4509	andyabramson	6392
	2	4603	jem27	124
	1	4872	bradlau	1240
	1	5107	mb	7998
	1	7499	Naija	4668
	4	8264	alicia	4879
	4	10078	reidhoffman	652434
	1	10178	stoweboyd	19020
	4	10237	Chuckumentary	10314
	1	10422	pleitch	1116
	3	10425	courtneyrau	332
	1	10695	briansweeting	606
	1	10715	dylanbland	1289

+-----+-----+-----+-----+

only showing top 20 rows

```
[26]: ori_des = original.groupby('user_id').agg(max('user_descrip').
      ↪alias('user_descrip'))
```

```
[27]: user_df = user_df.join(ori_des, user.user_id == ori_des.user_id, 'inner').
      ↪drop(ori_des['user_id'])
```

```
[ ]: user_df
```

323]

```
[ ]: +-----+-----+-----+-----+-----+
      |count|user_id|      user_name|Max_reach|      user_descrip|
      +-----+-----+-----+-----+-----+
      |  2|   418|      dens|    83191|I like to build t...|
      |  1|   926| bradbarrish|     2822|Internet adventur...|
      |  3|  3252|    odannyboy|   31824|ex-Head of Produc...|
      |  3|  4509|  andyabramson|    6392|Always Asymmetric...|
      |  1| 10178|    stoweboyd|   19020|The past, present...|
      |  4| 10237| Chuckumentary|   10314|boreal human with...|
      |  1| 10422|    pleitch|    1116|i like buying rec...|
      |  1| 10695| briansweeting|     606|Product design, d...|
      |  1| 11574|  Dredaye_89|    1909|Check the year I...|
      |  2| 12085|      dk|    3267|Social Media. Blo...|
      |  1| 15663|mildlydiverting|    2288|I need a new bio ...|
      |  6| 40403|    rosemary|    1235|Design web etc at...|
```

1	55273	debroby	1888	Lifter of heavy t...
2	60033	andybudd	65955	Design Founder, s...
1	61743	Bookworm	1478	Fan of democracy,...
7	77983	pickwick	2167	leftie feminist s...
2	96383	zachleat	23545	Maintainer of ...
11	242203	srizah	957	{T E T I E ...
1	276813	nandinis	239	Writer-in-hiding...
1	591873	Duder	148	Shift with your r...

+-----+-----+-----+-----+-----+-----+

only showing top 20 rows

```
[29]: ret_ct = retweet.groupby('full_text').agg(max('retweet_ct').alias('retweet_ct'))
ret_user = ret_ct.join(retweet, ret_ct.full_text==retweet.full_text, 'left').\
select(ret_ct.full_text, ret_ct.retweet_ct, 'retweeted_from')
ret_user = ret_user.dropDuplicates()
ret_user_sum = ret_user.groupby('retweeted_from').agg(sum('retweet_ct').
↳alias('total_rct'))
user_rtc = user_df.join(ret_user_sum, user_df.user_name == ret_user_sum.
↳retweeted_from, 'inner').\
drop(ret_user_sum['retweeted_from'])
```

```
[ ]: user_rtc.write.format("parquet").\
mode('overwrite').\
save('gs://chen26-bdp/infl')
```

23]]

```
[6]: influencer = spark.read.parquet('gs://chen26-bdp/infl')
```

```
[7]: influencer.orderBy(col('total_rct').desc())
```

```
[7]: +-----+-----+-----+-----+-----+-----+
---+
|count|          user_id|      user_name|Max_reach|
user_descrip|total_rct|
+-----+-----+-----+-----+-----+
---+
|  52|1326229737551912960|  libsoftiktok| 1893691|Bringing you news...|
482067|
|  17|          878284831| OccupyDemocrats|  504212|Pro-Democrat poli...|
414295|
|  17|          3317348164|  NasimiShabnam|   71862|Policy Special Ad...|
293392|
|  15|1268223690480615424|  NoLieWithBTC|  338956|Podcast covering ...|
291413|
```

10	26257166	SportsCenter	41400369	Download the ESPN...
250517				
49	1915033663	davidhogg111	1267103	Supposedly a "mul...
206630				
51	286998245	Phil_Lewis_	300076	detroit native. s...
197817				
1	14335586	Public_Citizen	535244	Public Citizen ha...
193203				
1	576320750	JonWTOL	2973	NW Ohio native. R...
185946				
13	1016021178	CollegeStudent	1876945	Contact: CollegeS...
181667				
66	3066800573	realchrisrufo	490037	Writer, filmmaker...
181261				
10	292929271	charliekirk11	1912374	Founder & Preside...
177580				
24	890891	BleacherReport	13501984	Become a B/R Insi...
176982				
17	148529707	RBReich	1585497	Berkeley profess...
175297				
71	1507068807038349314	FratSecrets	381302	Being a part of t...
172417				
10	1225603175748685824	ElyKreimendahl	147400	writer, comic, qu...
171951				
10	85583894	QasimRashid	355854	Human Rights Lawy...
168907				
26	818893114979061761	JoJoFromJerz	758665	jersey. democrat...
167801				
1	119458432	tweetsbyNAS	1343	It matters now, b...
160350				
35	4765364386	ChuckCallesto	415557	Father and Form...
158604				

```
+-----+-----+-----+-----+-----+
---+
```

only showing top 20 rows

```
[8]: veri = tweets.select([tweets.user['id'].alias('user_id'),
                           tweets.user['verified'].alias('verified')])
```

```
[10]: veri = veri.dropDuplicates(['user_id'])
```

```
[13]: user_veri = influencer.join(veri, influencer.user_id == veri.user_id, 'inner').
      ↪drop(veri.user_id)
```

```
[15]: user_veri.orderBy(col('total_rct').desc())
```



```

[15]: +-----+-----+-----+-----+-----+-----+-----+-----+-----+
      +-----+
      |count|          user_id|      user_name|Max_reach|
      |user_descrip|total_rct|verified|
      +-----+-----+-----+-----+-----+-----+-----+-----+
      +-----+
      |  52|1326229737551912960|  libsoftiktok|  1893691|Bringing you news...|
482067|  false|
      |  17|          878284831|OccupyDemocrats|  504212|Pro-Democrat poli...|
414295|  true|
      |  17|          3317348164|  NasimiShabnam|  71862|Policy Special Ad...|
293392|  true|
      |  15|1268223690480615424|  NoLieWithBTC|  338956|Podcast covering ...|
291413|  true|
      |  10|          26257166|  SportsCenter| 41400369|Download the ESPN...|
250517|  true|
      |  49|          1915033663|  davidhogg111|  1267103|Supposedly a "mul...|
206630|  true|
      |  51|          286998245|  Phil_Lewis_|  300076|detroit native. s...|
197817|  true|
      |  1|          14335586|  Public_Citizen|  535244|Public Citizen ha...|
193203|  true|
      |  1|          576320750|          JonWTOL|  2973|NW Ohio native. R...|
185946|  true|
      |  13|          1016021178|  CollegeStudent|  1876945|Contact: CollegeS...|
181667|  false|
      |  66|          3066800573|  realchrisrufo|  490037|Writer, filmmaker...|
181261|  true|
      |  10|          292929271|  charliekirk11|  1912374|Founder & Preside...|
177580|  true|
      |  24|          890891|  BleacherReport|  13501984|Become a B/R Insi...|
176982|  true|
      |  17|          148529707|          RBReich|  1585497|Berkeley profess...|
175297|  true|
      |  71|1507068807038349314|  FratSecrets|  381302|Being a part of t...|
172417|  false|
      |  10|1225603175748685824|  ElyKreimendahl|  147400|writer, comic, qu...|
171951|  false|
      |  10|          85583894|  QasimRashid|  355854|Human Rights Lawy...|
168907|  true|
      |  26| 818893114979061761|  JoJoFromJerz|  758665|jersey. democrat...|
167801|  false|
      |  1|          119458432|  tweetsbyNAS|  1343|It matters now, b...|
160350|  false|
      |  35|          4765364386|  ChuckCallesto|  415557|| Father and Form...|
158604|  false|
      +-----+-----+-----+-----+-----+-----+-----+-----+

```

---+-----+

only showing top 20 rows

```
[16]: verify = user_veri.filter(col('verified') == 'true')
      unverify = user_veri.filter(col('verified') == 'false')
```

```
[17]: top50_verify_original = verify.orderBy(col('count').desc()).limit(50)
```

```
[18]: v = top50_verify_original.toPandas()
```

```
[19]: v
```

```
[19]:
```

	count	user_id	user_name	Max_reach	\
0	3149	2868388510	sportsthread	208834	
1	1094	19025957	TTCnotices	429486	
2	748	30846824	TOICitiesNews	27844	
3	730	19616718	USNewsEducation	332590	
4	707	113388430	SF_England	127004	
5	706	34324846	ScienceCareers	167516	
6	647	12952842	MLive	380150	
7	635	28942750	MARTAservice	27515	
8	609	14662354	WashTimes	447359	
9	571	23602600	timeshighered	317632	
10	559	3384651455	HoustonChronHS	21387	
11	556	19811171	theeagle	29836	
12	547	1383920448	IranNewsUpdate1	23019	
13	513	36327407	htTweets	8699841	
14	497	8940342	HoustonChron	704296	
15	475	1100834285890736133	SportsBookWire	3847	
16	460	14372104	gchahal	522255	
17	457	321360161	QldAmbulance	37077	
18	438	1367531	FoxNews	23697482	
19	432	47648921	HighlandCouncil	30203	
20	428	51504696	IHSAScoreZone	41281	
21	416	12663042	scj	28431	
22	398	16045268	insidehighered	255195	
23	395	19675956	ExploreLearning	9477	
24	395	6100082	jim_dickinson	12554	
25	389	62088756	Mojahedineng	24031	
26	384	44914646	campusreform	141453	
27	378	19074331	ThePressofAC	141594	
28	374	12413032	chronicle	288381	
29	370	91478624	Forbes	18711065	
30	368	20796192	LaCrosseTribune	9969	
31	366	17028405	ABC7Chicago	855535	

32	364	10613072	qctimes	50302
33	360	1276140426	DeAngelisCorey	130788
34	355	18956073	dcexaminer	328989
35	344	114865519	NHPreps	17515
36	342	15375209	manilabulletin	1108260
37	339	61275243	wnct9	18971
38	335	70394965	citizentvkenya	5060465
39	327	16477702	syracusedotcom	109637
40	320	240649814	TimesNow	10323999
41	316	15448383	inquirerdotnet	3717988
42	314	19557568	PayingForSchool	46747
43	313	1005738156665106433	tribuneph1	10911
44	313	62725783	MJournalSports	8787
45	308	32496789	WLOS_13	89452
46	305	17469289	nypost	2840216
47	305	1075235518353428480	AMawlaee	559
48	305	167993590	DM_Shirley	5045
49	303	334920737	Outkick	236428

user\_descrip \

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35 Tweets by John Kampf and other members  
of @newsheraldino staff. Also follow: @clillstrungh, @howardprimer & @mpodo.  
: NHPreps

36 Breaking news and stories from different sides. RTs from  
our journalists. Unparalleled journalism in the Philippines since 1900.  
#BeFullyInformed

37 9 On Your Side is ENC's source  
for local news, Storm Team 9 weather, politics, ECU & local sports, social media  
and more.

38 Kenya's Premier TV Station. Breaking News /  
Entertainment / Your Favorite Local TV Shows. Follow us on  
<http://instagram.com/citizentvkenya>

39 Syracuse and Central New York's No. 1 news website.\n  
Support our journalism: <http://trib.al/3GL4B3f> \n Free newsletters:  
<http://trib.al/WFdAkRH>

40 TIMES NOW is  
India's most watched English news channel. Follow for lightning fast  
#BreakingNews and #Alerts.

41 Balanced News, Fearless Views. <https://www.inquirer.net>

42 Find & apply for #scholarships & #internships that fit you!

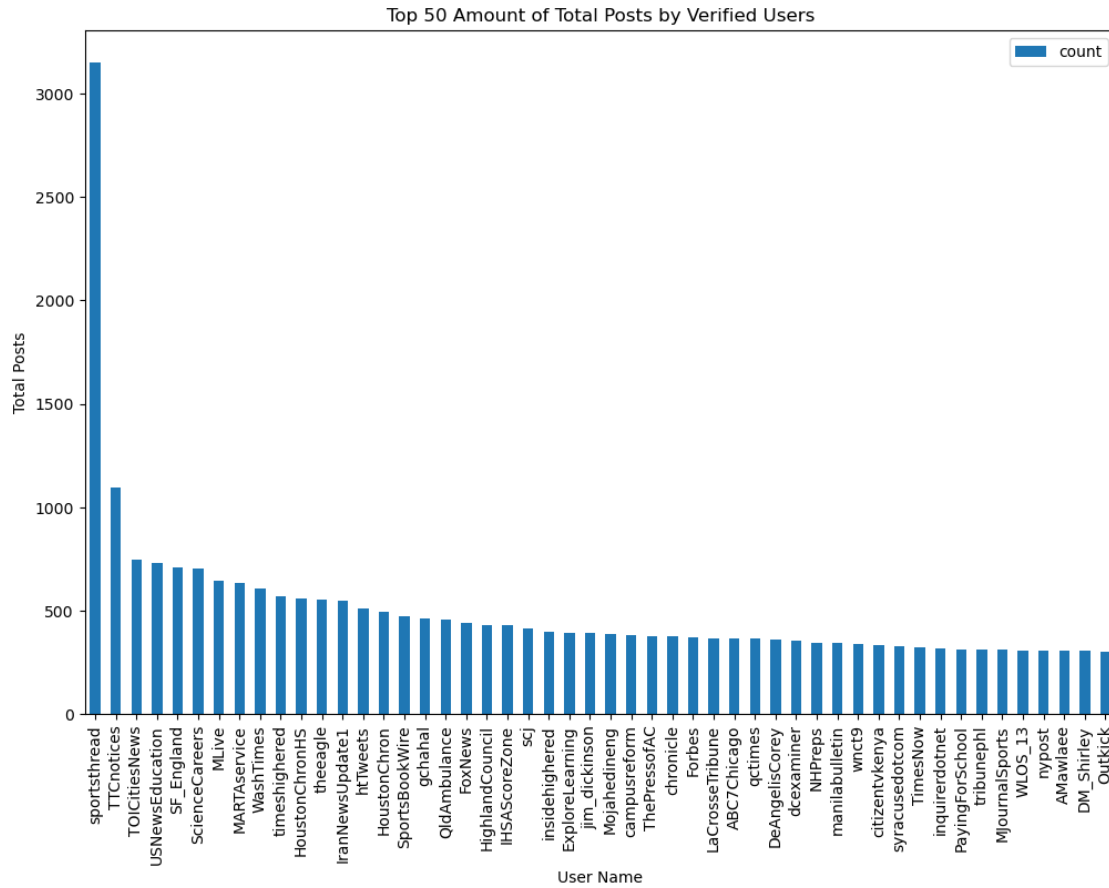


23	115	True
24	354	True
25	63329	True
26	1796	True
27	111	True
28	1648	True
29	7778	True
30	45	True
31	1946	True
32	168	True
33	86301	True
34	4586	True
35	1122	True
36	5504	True
37	50	True
38	15772	True
39	154	True
40	8339	True
41	60203	True
42	1325	True
43	361	True
44	623	True
45	182	True
46	32472	True
47	312	True
48	95	True
49	8083	True

```
[21]: ax = v.plot(x='user_name', y= 'count', kind='bar', figsize = (12, 8))

ax.set_xlabel('User Name')
ax.set_ylabel('Total Posts')
ax.set_title('Top 50 Amount of Total Posts by Verified Users')

# show the plot
plt.show()
```



```
[22]: top50_unverify_original = unverify.orderBy(col('count').desc()).limit(50)
```

```
[23]: uv = top50_unverify_original.toPandas()
```

```
[24]: uv
```

```
[24]:
```

	count	user_id	user_name	Max_reach	\
0	12520	1128225338775953408	AndrianyRahmah	218	
1	9201	219401992	DennisStemmler	3804	
2	7769	1508968207259869185	hilmsit	353	
3	6809	66263683	NJSchoolJobs	4252	
4	6780	1576939116230455296	dini92276801	84	
5	6609	1577029442488061953	TeriWini	37	
6	6549	1463182041147576321	sport9920	95	
7	6337	879496394691805184	EssayPaperUK	803	
8	6241	1582053513357537293	qiopalika	18	
9	6178	1473922978073165834	studyinnaija	48	



10	6039	1422259384525090818	luv22_sports	139
11	5823	1338108136561856517	adeliasari033	25
12	5776	1214364378150998019	LoveLiveFrames	4919
13	5658	1597301580914601985	LioujinS	63
14	5624	73707872	indiaedudiary	1213
15	5289	1329639203144011776	robson89148161	35
16	5263	901030512	KOIN_Malang	172
17	5209	1472159008886870028	chuokikuukenya	97
18	5162	2203526911	xo_coachingjobs	5954
19	5139	1468164097355264002	group_kq	199
20	5107	1145005218	Leonkalangit	197
21	4966	1704823393	HIMAE_UNJA	194
22	4950	1557075320859402241	HSSport344	1353
23	4940	1399767823258243072	SPORTSL44821501	77
24	4934	342040769	imalitaBLITAR	125
25	4904	1389413689	Hewanpedia	127
26	4766	1290982957142835200	Mesiga0	36
27	4731	160974553	fladeamiyora	106
28	4726	86883793	Lyttardianz	101
29	4713	1600486037113143298	ahsny_telany	31
30	4713	984117782	GyanaSari	175
31	4674	1133112961675870209	TvSports112	67
32	4656	1258543958	odreede	240
33	4646	1363680066	MagiMudin	181
34	4551	1448701295318216704	SexualAssaultB2	22
35	4485	1448410354363551747	SexualAssaultB1	9
36	4280	1673150558	fessamaulana	116
37	4269	1495367992443478017	lndrawari	1073
38	4243	1518977694951739394	QuickPickBot	2
39	4231	1238273276994039809	animeAllAttends	72
40	4223	1170532065965555712	tHD2qLMmeoLbhiv	11
41	4194	1368437431	HighFotball	47
42	4163	1442890904	israel40gep	144
43	4055	601588639	NameDeris	24
44	4052	1146822133	haysoffy	146
45	3986	1597814626942472192	alberta_satu	220
46	3963	1055387006132400128	Ara68708121	31
47	3961	1066624777807429632	money_personal	1482
48	3940	1524714923741171712	Oklahomasports7	14
49	3899	1524734802603114498	Mikaelkenzo	9

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#teachingjobs #newjersey

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None

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in Nigeria.

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watching live sports - Football,Basketball and many more (Click the link below  
the description)

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| High School Football America\n [https://nbc.ontv-](https://nbc.ontv-sport.com/hsf.php)  
[sport.com/hsf.php](https://nbc.ontv-sport.com/hsf.php)

12

\nPost Every Love Live!  
Nijigaku!! . 1 Frame each 5 minutes \nJoin us on Discord  
\n<http://discord.com/invite/5T6cXH4...>

13

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14

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sector news

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College & high school job postings for coaches. Visit  
<https://t.co/mgqZWfkP3B> for complete list. For resume, portfolio, & interview  
help <https://t.co/s4l88TujnS>

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student athlete

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None

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official account of all matches\n visit our facebook page

23

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None

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None

26

Sports Live Broadcast

27

None

28

United States

29

None

30

There's nothing to lose

31

sports

32

thank you for following us

33

None

34

Raising awareness for sexual assault prevention. Resources and facts are posted daily.

35

None

36

None

37 High School Soccer\nBest Public High Schools\nBest High Schools\nTop 10 Private High Schools\nMyinstantoffer com Offer\nHigh School Diploma\nBest Private High Schools

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We like Suits.We like Outdoor fashion and Sneakers too.\n

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 45  
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 47  
 Follow for exclusive #deals and #selfhelp resources. #OnlineDeals for you.  
 48  
 None  
 49  
 None

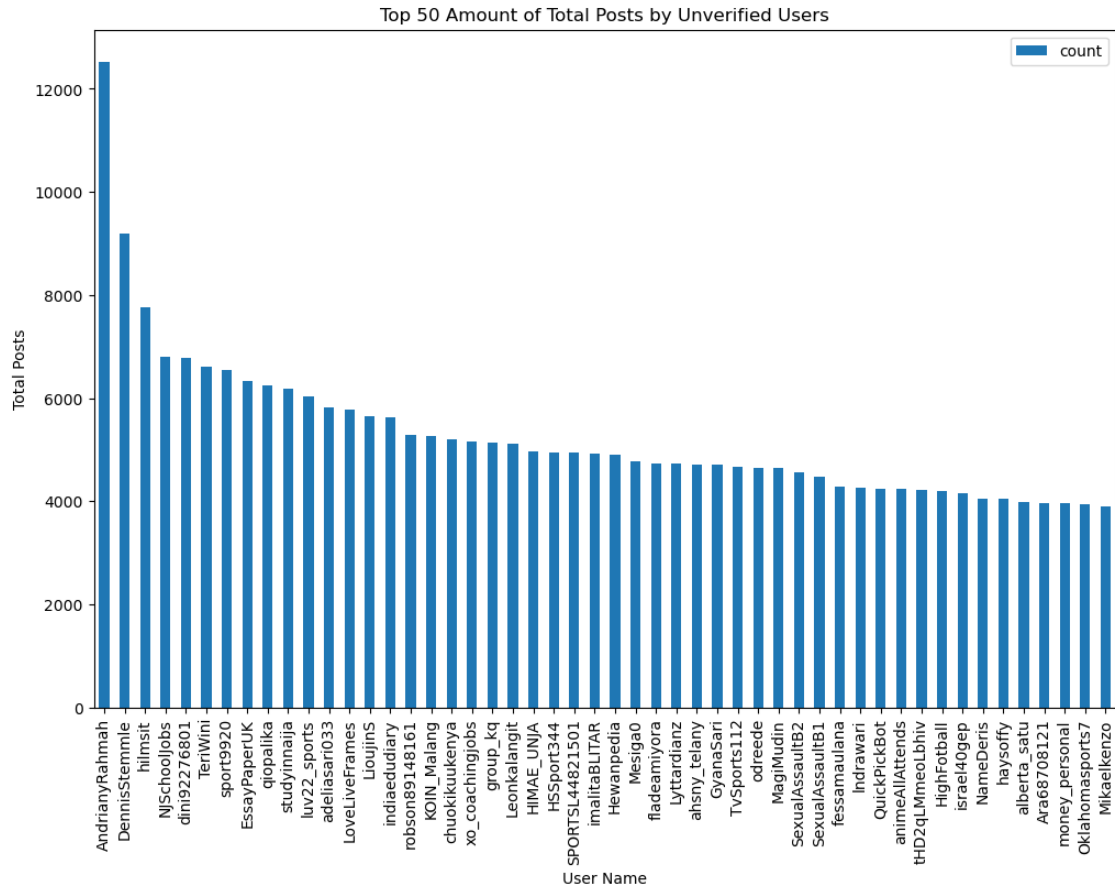
	total_rct	verified
0	13	False
1	410	False
2	17	False
3	540	False
4	6	False
5	1	False
6	69	False
7	3	False
8	3	False
9	5	False
10	1	False
11	5	False
12	2219	False
13	3	False
14	62	False
15	2	False
16	3	False
17	14	False
18	575	False
19	46	False
20	1	False
21	7	False
22	79	False
23	3	False
24	1	False
25	2	False
26	7	False
27	2	False
28	7	False
29	3	False

30	4	False
31	9	False
32	17	False
33	1	False
34	2	False
35	1	False
36	4	False
37	6	False
38	1	False
39	25	False
40	3	False
41	4	False
42	2	False
43	5	False
44	4	False
45	13	False
46	1	False
47	308	False
48	2	False
49	1	False

```
[25]: ax = uv.plot(x='user_name', y= 'count', kind='bar', figsize = (12, 8))

ax.set_xlabel('User Name')
ax.set_ylabel('Total Posts')
ax.set_title('Top 50 Amount of Total Posts by Unverified Users')

# show the plot
plt.show()
```



```
[26]: top50_ori = user_veri.orderBy(col('count').desc()).limit(50)
```

```
[ ]: top50 = top50_ori.toPandas()
```

```
[28]: top50
```

```
[28]:
```

	count	user_id	user_name	Max_reach \
0	12520	1128225338775953408	AndrianyRahmah	218
1	9201	219401992	DennisStemmle	3804
2	7769	1508968207259869185	hilmsit	353
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29	4713	984117782	GyanaSari	175
30	4713	1600486037113143298	ahsny_telany	31
31	4674	1133112961675870209	TvSports112	67
32	4656	1258543958	odreede	240
33	4646	1363680066	MagiMudin	181
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37	4269	1495367992443478017	lndrawari	1073
38	4243	1518977694951739394	QuickPickBot	2
39	4231	1238273276994039809	animeAllAttends	72
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46	3963	1055387006132400128	Ara68708121	31
47	3961	1066624777807429632	money_personal	1482
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49	3899	1524734802603114498	Mikaelkenzo	9

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#teachingjobs #newjersey

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[sport.com/hsf.php](https://nbc.ontv-sport.com/hsf.php)

12

\nPost Every Love Live!  
Nijigaku!! . 1 Frame each 5 minutes \nJoin us on Discord  
\n<http://discord.com/invite/5T6cXH4...>

13

None

14

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sector news

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<https://t.co/mgqZWfkP3B> for complete list. For resume, portfolio, & interview  
help <https://t.co/s4l88TujnS>

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student athlete

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official account of all matches\n visit our facebook page

23

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None

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None

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Sports Live Broadcast

27

None

28

United States

29

There's nothing to lose

30

None

31

sports

32

thank you for following us

33

None

34

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35

None

36

None

37 High School Soccer\nBest Public High Schools\nBest High Schools\nTop 10 Private High Schools\nMyinstantoffer com Offer\nHigh School Diploma\nBest Private High Schools

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We like Suits.We like Outdoor fashion and Sneakers too.\n

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 47  
 Follow for exclusive #deals and #selfhelp resources. #OnlineDeals for you.  
 48  
 None  
 49  
 None

	total_rct	verified
0	13	False
1	410	False
2	17	False
3	540	False
4	6	False
5	1	False
6	69	False
7	3	False
8	3	False
9	5	False
10	1	False
11	5	False
12	2219	False
13	3	False
14	62	False
15	2	False
16	3	False
17	14	False
18	575	False
19	46	False
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21	7	False
22	79	False
23	3	False
24	1	False
25	2	False
26	7	False
27	2	False
28	7	False
29	4	False

30	3	False
31	9	False
32	17	False
33	1	False
34	2	False
35	1	False
36	4	False
37	6	False
38	1	False
39	25	False
40	3	False
41	4	False
42	2	False
43	5	False
44	4	False
45	13	False
46	1	False
47	308	False
48	2	False
49	1	False

```
[29]: # top retweeted
top50_rt = user_veri.orderBy(col('total_rct').desc()).limit(50)
top50_rt_df = top50_rt.toPandas()
```

```
[30]: top50_rt_df
```

```
[30]:
```

	count	user_id	user_name	Max_reach	\
0	52	1326229737551912960	libsoftiktok	1893691	
1	17	878284831	OccupyDemocrats	504212	
2	17	3317348164	NasimiShabnam	71862	
3	15	1268223690480615424	NoLieWithBTC	338956	
4	10	26257166	SportsCenter	41400369	
5	49	1915033663	davidhogg111	1267103	
6	51	286998245	Phil_Lewis_	300076	
7	1	14335586	Public_Citizen	535244	
8	1	576320750	JonWTOL	2973	
9	13	1016021178	CollegeStudent	1876945	
10	66	3066800573	realchrisrufo	490037	
11	10	292929271	charliekirk11	1912374	
12	24	890891	BleacherReport	13501984	
13	17	148529707	RBReich	1585497	
14	71	1507068807038349314	FratSecrets	381302	
15	10	1225603175748685824	ElyKreimendahl	147400	
16	10	85583894	QasimRashid	355854	

17	26	818893114979061761	JoJoFromJerz	758665
18	1	119458432	tweetsbyNAS	1343
19	35	4765364386	ChuckCallesto	415557
20	83	246939630	shannonrwatts	601731
21	2	24996233	benyahr	44328
22	28	2557521	espn	44930065
23	70	1332809596885405702	piper4missouri	81086
24	11	318673863	AskAnshul	1128620
25	41	1246599649835786244	BigBroKnowsBest	607135
26	1	1442696255025582084	briantheruller	203634
27	1	104040220	theestallion	7600799
28	48	897726186612248576	KIITUniversity	31552
29	44	1243266944226201606	NYUfratguy	484656
30	1	19725644	neiltyson	14805242
31	27	886398296146706432	davenewworld_2	274522
32	22	1050779471731707904	PeterObi	2862455
33	14	1068014810804174848	lovedoveclarke	142570
34	41	1140709434735378433	MuscularJocks	408485
35	13	32871086	kylegriffin1	1396393
36	21	342863309	BetoORourke	2603236
37	8	1009577803304656896	itsJeffTiedrich	1058766
38	6	1021540770598346761	spinubzilla	21821
39	34	199399909	NicholasFerroni	129051
40	3	1340985810741391360	imzarvinnn	21195
41	6	1194402576197775360	imzarvinnn	58848
42	1	44196397	elonmusk	106476100
43	1	255036353	LisPower1	32333
44	9	451046378	jordanfibonacci	5524
45	3046	1349451631390289920	HBCUSports1	42049
46	13	27493883	joncoopertweets	1179308
47	29	452540168	DailyLoud	1339716
48	2	866102366	BusinessmanWiz	115410
49	12	6688542	lisalibrarian	16247

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@OmarRiverosays

2 Policy Special Advisor to the UK Minister of State for Refugees. Agent: info@theblairpartnership.com

@TBP\_agency

3 Podcast covering the top stories & interviews with the biggest names in politics. Hosted by

@briantylercohen

4

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Supposedly a "multi-millionaire, American spy, and paid actor"

contactdavidhogg@gmail.com

6

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9

Contact: CollegeStudentofficial@gmail.com

10

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11

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Berkeley professor, former Secretary of Labor. Co-founder, \n@InequalityMedia. Substack: <http://robertreich.substack.com> | Mastodon: @rbreich@masto.ai

14

Being a part of the brotherhood means we keep each other's secrets

15

writer, comic, queer. i live tweeted the birth of my baby. @funnyordie @newrootsartists @humordarling mgmt: waldorf entertainment

16

Human Rights Lawyer • Author •

Dad Jokes • Host of The Qasim Rashid Show on Sirius XM Channel 126 Sundays @ 10am EST

17

jersey. democrat. news junkie. lover of puns. Lebanese. hothead. mom. geek. Blocked by Chachi. <http://jojofromjerz.com>. <https://ko-fi.com/jojofromjerz>

18

It matters now, but not here.

19

| Father and Former Candidate | #FL03 | Political Strategist | Start Ups | Marketing Growth Manager | Let's Grow | R/T's Not Endorsements | BREAKING HEADLINES |

20

Founder of @MomsDemand, grassroots army of @Everytown / @AmericanU Fellow / Author of Fight Like a Mother / Boards @WeAdvancePeace, @EmergeAmerica / #MizzouMade

21

Goofball | Actress | Short King | Lip Sync Assassin |

<http://www.Instagram.com/benyahr>

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Teacher, podcaster,  
and former Democratic Nominee for State Representative in MO HD1.

#DirtRoadDemocrat

24 | News Junkie | Politics | Foreign Affairs | National Security | Observer &  
Analyst | i tweet informative facts and opinions |

<http://www.youtube.com/AskAnshul>

25

One thing I've learned is that my older brother knows best.

26

turn notis on

27

thee real Htown Hottie

28

We are celebrating 25 glorious years of #KIIT\n#KIITat25

29

21 year old college athlete at NYU. Kapa Sigma. Looking for my little bro

30

Astrophysicist

31

Freelance Reporter / "An important member of the media"  
-Twitter's legal team / Trump's FBI subpoenaed my social media data for no  
reason

32

Former Governor, Anambra State. Tweets by him are signed -PO.

33

dove clarke's Public Online Diary #mmip

34

If you like muscular jocks who aren't afraid to have fun together, welcome home

35

Executive Producer. MSNBC's @AymanMSNBC and  
@MehdiHasanShow. Opinions mine. Do not congratulate.

<https://post.news/kylegriffin1>

36

I'm running for governor to serve ALL the people of Texas.

37

don't blame me, I voted for the email lady

38

patron saint of sad boys she/her writer of @tinyfairytale

39

As a kid, I wanted to be a superhero,  
psychologist, philanthropist, philosopher, actor and comedian... So I became a  
teacher.

40

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bbencaniete@gmail.com Paypal account & Gcash account : 09657324551 YES PO NEW  
ACT KOTO dump: @mrnjcntt

41

•second acc:@nopainpost•http://sayout.me/say/imzarvinnn•

42

None

43

Director of Media Intelligence

@mmfa. Philly born. #FlyEaglesFly F&M alum. Former TFA Miami. Views are mine alone.

44

,

. l O'Hare & Drax |

@BigPippinFX

45

HBCU Most Viewed Sports Twitter Site \n Your #1 Source of HBCU Daily News and Sports

46 Former National Finance Chair of Draft Biden, LI Campaign Chair for Barack Obama. Hit "Super Follow" for tips to boost your messaging and grow your followers!

47

| #1 Source For Hip-Hop / Viral News | Follow Us And Stay Updated | Email For Promo & Business TheDailyLoud@gmail.com | New Content & IG Below

48

Religiously Financially Historically Politically

I have but two goals: liberate your minds & enrich your souls/bank accounts!

49

Professor @IllinoisLibrary & Affiliate Faculty @iSchoolUI; Faculty Board of @IllinoisPress; Boards of @ScholarlyPub & @ORCID\_Org; Chef @ScholarlyKitchn

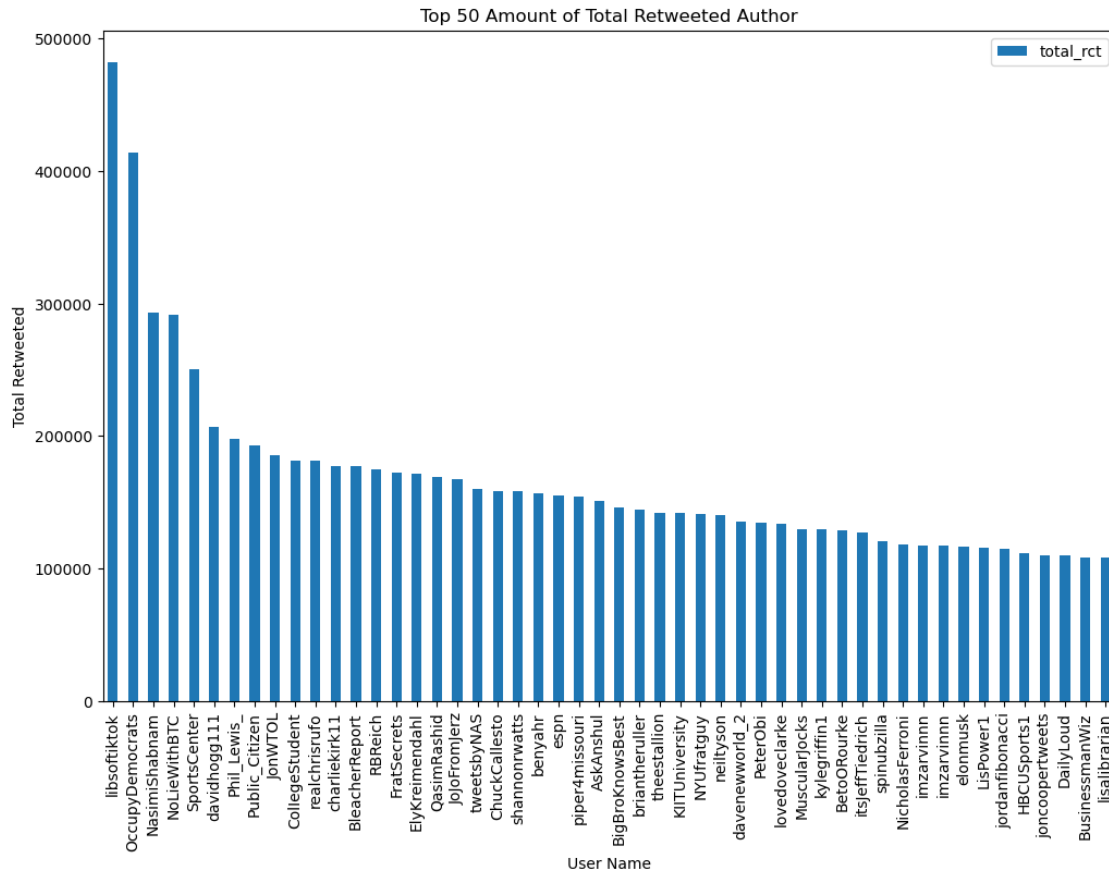
	total_rct	verified
0	482067	False
1	414295	True
2	293392	True
3	291413	True
4	250517	True
5	206630	True
6	197817	True
7	193203	True
8	185946	True
9	181667	False
10	181261	True
11	177580	True
12	176982	True
13	175297	True
14	172417	False
15	171951	False
16	168907	True
17	167801	False
18	160350	False
19	158604	True
20	158155	True

21	156440	False
22	155383	True
23	154380	True
24	151074	True
25	146182	False
26	144214	False
27	142205	True
28	141749	True
29	141225	False
30	140754	True
31	135219	False
32	134576	True
33	133533	False
34	129666	False
35	129375	True
36	128688	True
37	127128	False
38	120740	False
39	118242	True
40	117241	False
41	117241	False
42	116620	True
43	115704	True
44	115110	False
45	111771	False
46	110298	True
47	109678	False
48	108450	False
49	108293	False

```
[32]: ax = top50_rt_df.plot(x='user_name', y= 'total_rct', kind='bar', figsize = (12,8))
      ax.set_xlabel('User Name')
      ax.set_ylabel('Total Retweeted')
      ax.set_title('Top 50 Amount of Total Retweeted Author')

      # show the plot
      plt.show()
```





```
[33]: # top retweeted verify
rt_verify = user_veri.filter(col('verified') == 'true')
top50_rt_v = rt_verify.orderBy(col('total_rct').desc()).limit(50)
top50_rt_v_df = top50_rt_v.toPandas()
```

```
[34]: top50_rt_v_df
```

```
[34]:
```

	count	user_id	user_name	Max_reach	\
0	17	878284831	OccupyDemocrats	504212	
1	17	3317348164	NasimiShabnam	71862	
2	15	1268223690480615424	NoLieWithBTC	338956	
3	10	26257166	SportsCenter	41400369	
4	49	1915033663	davidhogg111	1267103	
5	51	286998245	Phil_Lewis_	300076	
6	1	14335586	Public_Citizen	535244	
7	1	576320750	JonWTOL	2973	
8	66	3066800573	realchrisrufo	490037	
9	10	292929271	charliekirk11	1912374	

10	24	890891	BleacherReport	13501984
11	17	148529707	RBReich	1585497
12	10	85583894	QasimRashid	355854
13	35	4765364386	ChuckCallesto	415557
14	83	246939630	shannonrwatts	601731
15	28	2557521	espn	44930065
16	70	1332809596885405702	piper4missouri	81086
17	11	318673863	AskAnshul	1128620
18	1	104040220	theestallion	7600799
19	48	897726186612248576	KIITUniversity	31552
20	1	19725644	neiltyson	14805242
21	22	1050779471731707904	PeterObi	2862455
22	13	32871086	kylegriffin1	1396393
23	21	342863309	BetoORourke	2603236
24	34	199399909	NicholasFerroni	129051
25	1	44196397	elonmusk	106476100
26	1	255036353	LisPower1	32333
27	13	27493883	joncoopertweets	1179308
28	178	22637974	barstoolsports	4885676
29	1	2185713181	InfernoOmni	95346
30	19	6473022	ChrChristensen	35054
31	205	28785486	ABC	17804328
32	236	355989081	ANI	7556951
33	158	759251	CNN	61179807
34	2	2785011443	mattxiv	222938
35	4	1349149096909668363	POTUS	29370914
36	438	1367531	FoxNews	23697482
37	14	15801906	TristanSnell	383934
38	10	357606935	ewarren	6048913
39	30	592730371	JackPosobiec	1912767
40	360	1276140426	DeAngelisCorey	130788
41	17	319272601	clhubes	56268
42	2	216776631	BernieSanders	15731059
43	24	947924373029171200	AlinejadMasih	662039
44	3	18839785	narendramodi	84850082
45	159	807095	nytimes	54936969
46	7	455684839	briantylercohen	551155
47	33	95092020	jordanbpeterson	3768807
48	17	22899683	Omid_M	102914
49	29	70355674	ashoswai	492820

user\_descrip \

0 Pro-Democrat political organization & news website. NY Times reported that our reach dominated Trump on Facebook before his ban. Founder: @OmarRiverosays

1 Policy Special Advisor to the UK Minister of State for Refugees. Agent: info@theblairpartnership.com

@TBP\_agency

2

Podcast covering  
the top stories & interviews with the biggest names in politics. Hosted by  
@briantylercohen

3

Download the ESPN App

4

Supposedly a "multi-millionaire, American spy, and paid actor"  
contactdavidhogg@gmail.com

5

detroit native. senior front page editor @huffpost. subscribe to my newsletter!

6

Public Citizen has been standing up to corporate power and  
holding government accountable for 50 years. We're people-powered and accept no  
corporate money.

7

NW Ohio native. Reporter/Photographer for @WTOL11Toledo and @Go\_419

8

Writer, filmmaker, activist. Manhattan  
Institute and City Journal. Sign up for my newsletter:  
<http://christopherrufo.com/newsletter>.

9

Founder & President: @TPUSA • Host: The Charlie Kirk Show • Click the link below  
to subscribe

10

Become a B/R Insider and help shape the future of the app

11

Berkeley professor, former Secretary of Labor. Co-founder,  
\n@InequalityMedia. Substack: <http://robertreich.substack.com> | Mastodon:  
@rbreich@masto.ai

12

Human Rights Lawyer •  
Author • Dad Jokes • Host of The Qasim Rashid Show on Sirius XM Channel 126  
Sundays @ 10am EST

13

| Father and Former Candidate | #FLO3 | Political Strategist | Start  
Ups | Marketing Growth Manager | Let's Grow | R/T's Not Endorsements | BREAKING  
HEADLINES |

14

Founder of @MomsDemand, grassroots army of @Everytown / @AmericanU  
Fellow / Author of Fight Like a Mother / Boards @WeAdvancePeace, @EmergeAmerica  
/ #MizzouMade

15

Serving sports fans. Anytime. Anywhere.

16

Teacher,  
podcaster, and former Democratic Nominee for State Representative in MO HD1.  
#DirtRoadDemocrat

17

| News Junkie | Politics | Foreign Affairs | National Security |  
Observer & Analyst | i tweet informative facts and opinions |  
<http://www.youtube.com/AskAnshul>

18

thee real Htown Hottie

19  
 We are celebrating 25 glorious years of #KIIT\n#KIITat25  
 20  
 Astrophysicist  
 21  
 Former Governor, Anambra State. Tweets by him are signed -PO.  
 22 Executive Producer. MSNBC's  
 @AymanMSNBC and @MehdiHasanShow. Opinions mine. Do not congratulate.  
<https://post.news/kylegriffin1>  
 23  
 I'm running for governor to serve ALL the people of Texas.  
 24 As a kid, I wanted to be a  
 superhero, psychologist, philanthropist, philosopher, actor and comedian... So I  
 became a teacher.  
 25  
 None  
 26 Director of Media  
 Intelligence @mmfa. Philly born. #FlyEaglesFly F&M alum. Former TFA Miami. Views  
 are mine alone.  
 27 Former National Finance Chair of Draft Biden, LI Campaign Chair for  
 Barack Obama. Hit "Super Follow" for tips to boost your messaging and grow your  
 followers!  
 28  
 Viva La Stool - Download the Barstool Sports app  
<https://www.barstoolsports.com/download>  
 29 Your #1  
 source for all things that probably don't matter. | Biz: InfernoOmniTV@gmail.com  
 #LayItOmni  
 30 American. Professor at Stockholm University.  
 Ph.D. University of Texas at Austin. Write stuff about journalism, politics,  
 culture. 49ers.  
 31 The  
 only official ABC News Twitter account. Download our new mobile app:  
<https://abcn.ws/3SimQeR>  
 32 Asian News International. Multi-media news agency, content for  
 information platforms: TV, Internet, broadband, newspapers, mobiles  
<https://t.co/eEMPAbi38k>  
 33 It's our job to #GoThere & tell the most difficult stories. For breaking  
 news, follow @CNNBRK and download our app <https://t.co/ceNBoNi8y6>\n\n@CNNPlus -  
 Streaming 3/29  
 34  
 jewish homo w very long nails - he/they  
 35 46th President of the United States, husband to @FLOTUS,  
 proud dad & pop. Tweets may be archived: <http://whitehouse.gov/privacy>\nText me:  
 (302) 404-0880  
 36 Follow America's #1 cable news network,  
 delivering you breaking news, insightful analysis, and must-see videos.

<http://foxnews.com/contact>

37 Lawyer, founder <http://MainStreet.law> repping small/mid-size businesses, entrepreneurs, creators. Prosecuted Trump University @ NY AG. Commentator MSNBC CNN.

38 U.S. Senator, former teacher. Wife, mom (Amelia, Alex, Bailey, @CFPB), grandmother, and Okie. She/her. Official campaign account.

39 Senior Editor, <http://HumanEvents.com>. Veteran Navy intel officer. Click the link below to subscribe

40 Senior Fellow, @SchoolChoiceNow; Executive Director, @EF\_Institute; Senior Fellow, @ReasonFdn; Forbes 30 Under 30

41 editor @mcsweeneys work in: @tnyshouts, @MADmagazine, @huffingtonpost, @bust\_magazine, @themoth, @greatist, @runnersworld, @the\_belladonnas Black Lives Matter

42 U.S. Senator for Vermont. Not me, us.

43 Iranian journalist and activist. Founder of #WhiteWednesdays & #MyCameraIsMyWeapon #MyStealthyFreedom and #LetUsTalk. My Email address: masih.author@gmail.com

44 Prime Minister of India

45 News tips? Share them here: <http://nyti.ms/2FVHq9v>

46 Political commentary. Over 1 billion views across YouTube, Facebook, Instagram, Snapchat, TikTok. Host of @NoLieWithBTC podcast.

47 Best-Selling Author | Clinical Psychologist | #1 Education Podcast | Subscribe to the Premium JBP podcast here:

48 Journalist, Analyst, @ucbsoj, #Iran, #Politics, #Journalism, #Media, #MiddleEast, #Art, Communications Director at @dawnmenaorg

49 Professor of Peace and Conflict Research\n@UU\_Peace\nUppsala University\n'Right is Wrong' column, @gulf\_news\nViews my own

	total_rct	verified
0	414295	True
1	293392	True
2	291413	True
3	250517	True
4	206630	True
5	197817	True
6	193203	True
7	185946	True

8	181261	True
9	177580	True
10	176982	True
11	175297	True
12	168907	True
13	158604	True
14	158155	True
15	155383	True
16	154380	True
17	151074	True
18	142205	True
19	141749	True
20	140754	True
21	134576	True
22	129375	True
23	128688	True
24	118242	True
25	116620	True
26	115704	True
27	110298	True
28	108209	True
29	106572	True
30	97932	True
31	96063	True
32	95338	True
33	95240	True
34	93977	True
35	92863	True
36	91990	True
37	89604	True
38	88797	True
39	88123	True
40	86301	True
41	85374	True
42	84233	True
43	80351	True
44	80295	True
45	78766	True
46	78192	True
47	78080	True
48	77377	True
49	76840	True

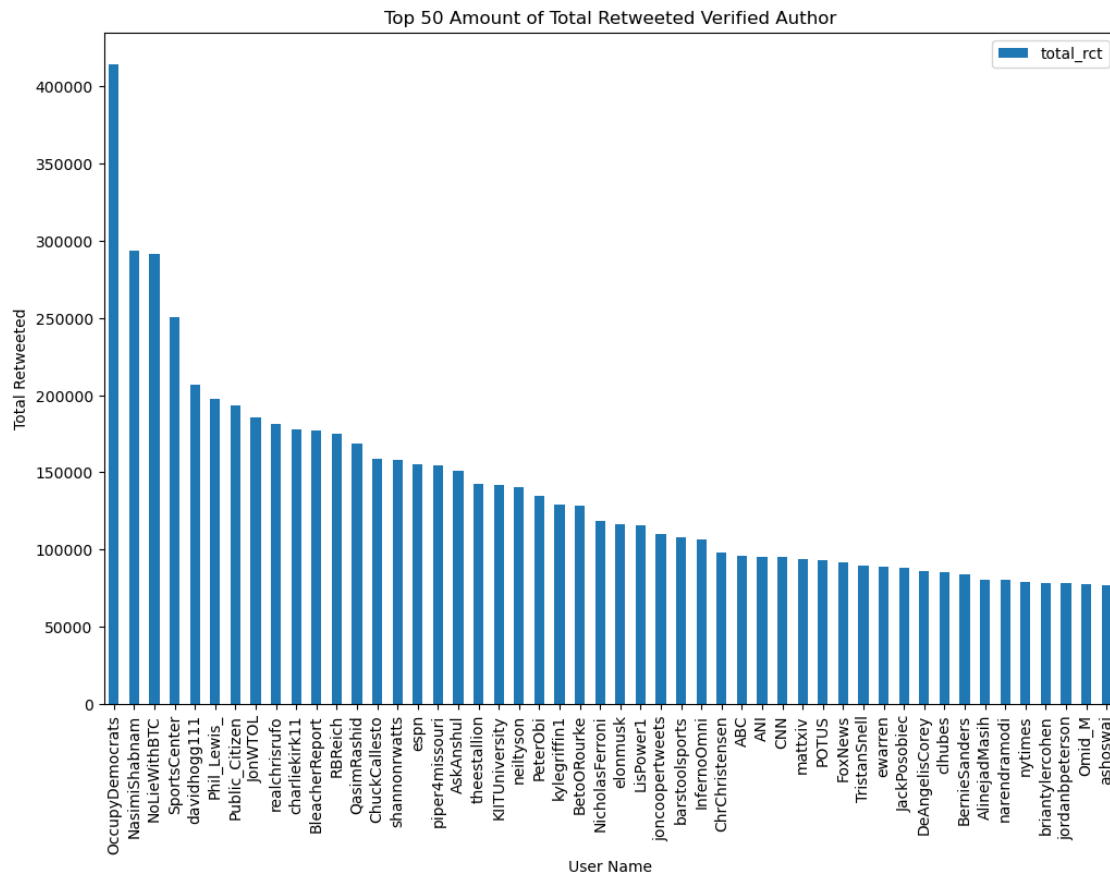
```
[35]: ax = top50_rt_v_df.plot(x='user_name', y= 'total_rct', kind='bar', figsize =(12, 8))
      ax.set_xlabel('User Name')
```

```

ax.set_ylabel('Total Retweeted')
ax.set_title('Top 50 Amount of Total Retweeted Verified Author')

# show the plot
plt.show()

```



```

[36]: # top retweeted verify
rt_unverify = user_veri.filter(col('verified') == 'false')
top50_rt_uv = rt_unverify.orderBy(col('total_rct').desc()).limit(50)
top50_rt_uv_df = top50_rt_uv.toPandas()

```

```

[37]: top50_rt_uv_df

```

```

[37]:      count  user_id  user_name  Max_reach \
0       52  1326229737551912960  libsoftiktok  1893691
1       13   1016021178  CollegeStudent  1876945
2       71  1507068807038349314    FratSecrets  381302
3       10  1225603175748685824  ElyKreimendahl  147400

```

4	26	818893114979061761	JoJoFromJerz	758665
5	1	119458432	tweetsbyNAS	1343
6	2	24996233	benyahr	44328
7	41	1246599649835786244	BigBroKnowsBest	607135
8	1	1442696255025582084	briantheruller	203634
9	44	1243266944226201606	NYUfratguy	484656
10	27	886398296146706432	davenewworld_2	274522
11	14	1068014810804174848	lovedoveclarke	142570
12	41	1140709434735378433	MuscularJocks	408485
13	8	1009577803304656896	itsJeffTiedrich	1058766
14	6	1021540770598346761	spinubzilla	21821
15	3	1340985810741391360	imzarvinnn	21195
16	6	1194402576197775360	imzarvinnn	58848
17	9	451046378	jordanfibonacci	5524
18	3046	1349451631390289920	HBCUSports1	42049
19	29	452540168	DailyLoud	1339716
20	2	866102366	BusinessmanWiz	115410
21	12	6688542	lisalibrarian	16247
22	2	1421069343027187718	itsmestacyz	866
23	67	1455311856092995585	DrJamesOlsson	242722
24	15	1520612280643162112	DashDobrofsky	166147
25	1	737453313352962048	griffinbarrowsx	937968
26	12	270132611	lindyli	296305
27	12	1090715513586679813	JoshuaPotash	232780
28	9	1117595956353163265	welplookathim	1103
29	1	4404487681	Iamujer_	4654
30	7	1043185714437992449	catturd2	1206242
31	12	4429003533	PopCrave	1258935
32	3	289805528	iholytrojan	5323
33	34	1298372735383605249	RonFilipkowski	663356
34	9	19725981	DragonflyJones	227010
35	1	790943038696779777	the_chaparrin	2429
36	3	929918032071315457	cal_gif	93995
37	20	1511608184728817668	psychtwts	11472
38	379	943517772	temabef	106200
39	9	1138458175663988738	PopBase	602110
40	38	201826636	jeremycyoung	29111
41	232	561975460	BigGameBoomer	74150
42	1	719355482209583105	4reuminct	650554
43	6	4614078615	skitttttzzz	1789
44	1	327125119	joeygllghr	45392
45	4	1295436719932633089	slizagna	6849
46	5	819994707061248001	CalltoActivism	871192
47	14	1084468387491790848	Victorshi2020	90142
48	2	722677982	Nikeyshwazey	589
49	50	4327127414	santiagomayer_	180424



user\_descrip \
 0 Bringing you news you won't see anywhere  
 else. All videos belong to their respective owners. libsoftiktok@gmail.com. DM  
 submissions

1  
 Contact: CollegeStudentofficial@gmail.com

2  
 Being a part of the brotherhood means we keep each other's secrets

3 writer, comic, queer. i live tweeted  
 the birth of my baby. @funnyordie @newrootsartists @humordarling mgmt: waldorf  
 entertainment

4 jersey. democrat. news junkie. lover of puns. Lebanese.  
 hothead. mom. geek. Blocked by Chachi. http://jojofromjerz.com. https://ko-  
 fi.com/jojofromjerz

5  
 It matters now, but not here.

6  
 Goofball | Actress | Short King | Lip Sync Assassin |  
 http://www.Instagram.com/benyahr

7  
 One thing I've learned is that my older brother knows best.

8  
 turn notis on

9  
 21 year old college athlete at NYU. Kapa Sigma. Looking for my little bro

10 Freelance Reporter / "An important member of the media"  
 -Twitter's legal team / Trump's FBI subpoenaed my social media data for no  
 reason

11  
 dove clarke's Public Online Diary #mmip

12  
 If you like muscular jocks who aren't afraid to have fun together, welcome home

13  
 don't blame me, I voted for the email lady

14  
 patron saint of sad boys she/her writer of @tinyfairytale

15 for promotions collab ,rt's & partnerships  
 bbbencaniete@gmail.com Paypal account & Gcash account : 09657324551 YES PO NEW  
 ACT KOTO dump: @mrnjcntt

16  
 •second acc:@nopainpost•http://sayout.me/say/imzarvinnn•

17  
 , . 1 O'Hare & Drax |  
 @BigPippinFX

18  
 HBCU Most Viewed Sports Twitter Site \n Your #1 Source of HBCU Daily News

and Sports

19 | #1 Source For Hip-Hop / Viral News | Follow Us And  
Stay Updated | Email For Promo & Business TheDailyLoud@gmail.com | New Content &  
IG Below

20 Religiously Financially Historically Politically  
I have but two goals: liberate your minds & enrich your souls/bank  
accounts!

21 Professor @IllinoisLibrary & Affiliate Faculty @iSchoolUI;  
Faculty Board of @IllinoisPress; Boards of @ScholarlyPub & @ORCID\_Org; Chef  
@ScholarlyKitchn

22

None

23

Genetic Engineering, Johns Hopkins 2014, Biomedical and Cancer Research

24 Mr. "Big News." Poli-Sci/History @UCLA. Sign up right now for  
THE GEN Z PERSPECTIVE to get my daily political scoops!

<http://dashdobrofsky.substack.com>

25 <http://OnlyFans.com/GriffinBarrows> -  
<http://tumblr.com/griffin-barrows-x> - Instagram: GriffinBarrowsXX - Email:  
griffinbarrowscontact@gmail.com

26 political commentator.

@joebiden delegate . @princeton alumni class president. vegan. runner  
instagram: lindy\_li

27 Earthseed | Abolition | Anti-  
capitalism | (he/him) \nPaid stuff @theslowfactory Unpaid stuff @wspmutualaid  
Backup: @jpbakitup

28 Reluctant know-it-all, that knows everything  
except how fake feels. Writer of Intriguingly Boring & Awesomely Imperfect. Thee  
OG #DadBod

29

starrin' and stylin' • discourse denier • twitter relic • she/her

30 Join our podcast - In the Litter Box - Monday thru Friday 3-4 pm ET at  
<https://t.co/2rhKwZ2jIm> \n\nMy Sci-Fi novel, Rabbitskin, is available at  
<https://t.co/ED2EDLtpYb>

31

The pop you crave. Info@PopCrave.com

32 HBCU Alumnus Joshua 1: 6-9 | Sinfonian | AΩ | The tragedy of  
life lies in having no goal to reach. - Benjamin E. Mays | Re/Tweets Beliefs  
or Promo |

33 Attorney, Marine, Triathlete, Historian. Fmr Fed Prosecutor &  
Repub; now Defense Att & Democrat. Track and Report on the Right-Wing. Seen on  
BBC, CNN, MSNBC.

34 You gonna just decide that I'm drunk? Who  
are you to decide that I'm drunk? I make that decision. That decision is between  
me and God.

35

BS Media Arts &  
Animation - AI Hollywood NFTS! Hasbulla is my king, check out my merch and

designs!

36 twitch streamer & prisoner of war in the battle  
between Toyotathon and Happy Honda Days top 0.01% onlyfans  
[https://beacons.page/cal\\_gif/](https://beacons.page/cal_gif/)

37

college is such a bitch

38

MSc Candidate | İstanbul University | YTB  
Scholarships | Founder @GlobalPert | Follow for daily updates on scholarship  
opportunities

39

Pop Base is your best source for all pop  
culture related entertainment, news, award show coverage, chart updates,  
statistics and more.

40

Senior Manager of Free Expression and Education @PENamerica.  
Historian. Free speech, academic freedom, children's rights, music, baseball.  
He/him. Views my own.

41

24/7 College Sports Talk  
- Podcast Subscribe Below Inquiries BigGameBoomer@gmail.com @prizepicks Promo  
Code: BGB

42

To be one with the stars. <https://linktr.ee/gwysaludes>

43

SGA  
Prez | NAACP FSU President | NAACP VB 2nd Vice President| Honor Student|  
Brownsville |

44

film degree haver

45

satisfaction not guaranteed. skeeball champion. earth worm  
rescuer. alt: @slizbutsecret mutuals only, \$20 for strangers. Venmo: slizagna  
she/her #BLM

46

We're Democrats taking ACTION to stop playing nice and  
finally defend America from MAGA, Fox News, and the NRA. Follow us to CRUSH THE  
GOP in November!

47

Youngest Biden Delegate. Host, On the Move. Co-host @iGenpolitics\_.  
Strategy @VotersTomorrow. Columnist @ResoluteSquare. Gen Z-er. @WhiteHouse  
@JoeBiden alum.

48

only way I'll shut up is if you pay me

49

Petty bitch who's here to cyberbully  
transphobes, fascists, book banners, and gun nuts | @Voterstomorrow | Immigrant  
| Views my own

	total_rct	verified
0	482067	False
1	181667	False
2	172417	False
3	171951	False
4	167801	False
5	160350	False

6	156440	False
7	146182	False
8	144214	False
9	141225	False
10	135219	False
11	133533	False
12	129666	False
13	127128	False
14	120740	False
15	117241	False
16	117241	False
17	115110	False
18	111771	False
19	109678	False
20	108450	False
21	108293	False
22	108182	False
23	106132	False
24	104923	False
25	102388	False
26	99859	False
27	97857	False
28	96735	False
29	96636	False
30	93846	False
31	92838	False
32	92550	False
33	92500	False
34	92373	False
35	91416	False
36	90806	False
37	89152	False
38	89096	False
39	89094	False
40	88399	False
41	87800	False
42	84976	False
43	84022	False
44	83829	False
45	82690	False
46	81480	False
47	80719	False
48	80641	False
49	79951	False

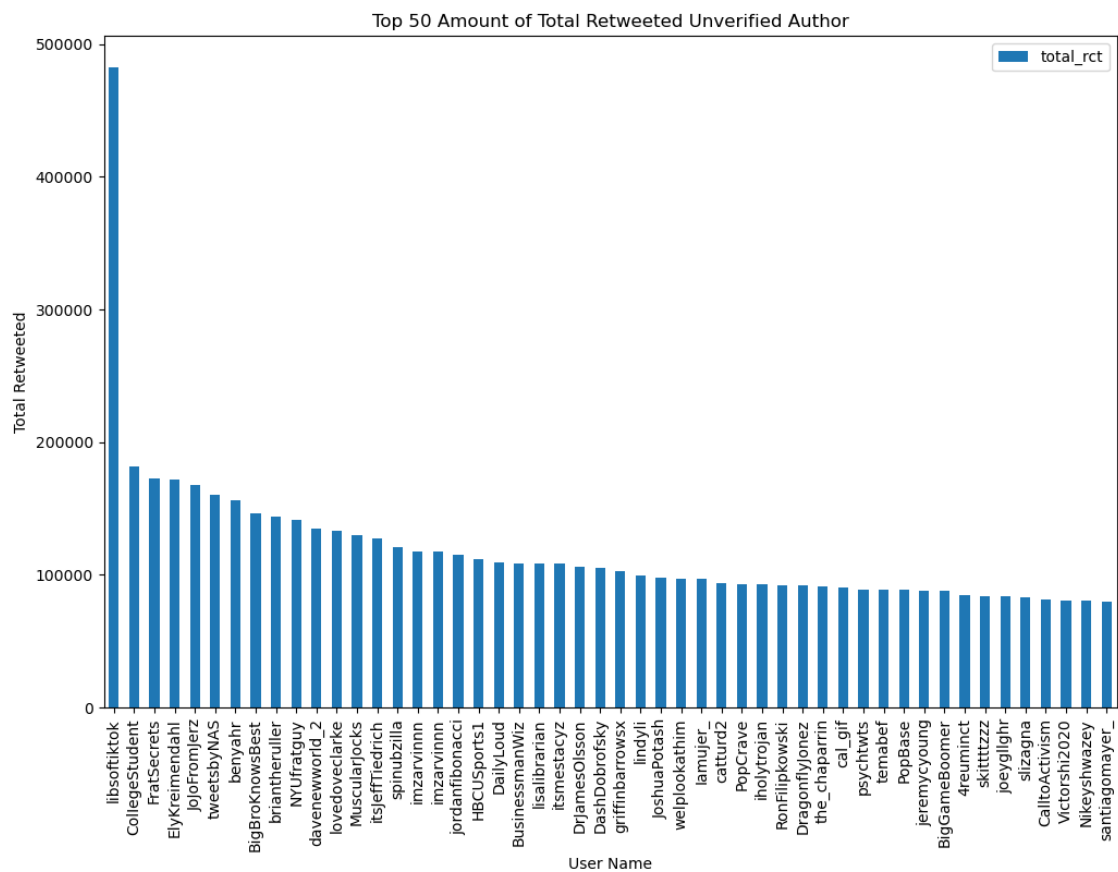
```
[38]: ax = top50_rt_uv_df.plot(x='user_name', y= 'total_rct', kind='bar', figsize =(12, 8))
```

```

ax.set_xlabel('User Name')
ax.set_ylabel('Total Retweeted')
ax.set_title('Top 50 Amount of Total Retweeted Unverified Author')

# show the plot
plt.show()

```



[ ]:

[ ]:

[ ]:

[ ]:

[ ]:

[ ]:

[ ]:

[ ]: