Final_Project_6

March 10, 2023

Plots

```
[1]: import pandas as pd
      import numpy as np
      pd.set_option('display.max_colwidth', None)
      pd.reset_option('display.max_rows')
      from itertools import compress
      from pyspark.sql.functions import *
      from pyspark.sql.types import *
      import seaborn as sns
      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
 [8]: spark.conf.set("spark.sql.repl.eagerEval.enabled",True)
 [3]: %%time
      twitter = spark.read.parquet('gs://chen26-bdp/original_data')
     CPU times: user 8.75 ms, sys: 1.02 ms, total: 9.77 ms
     Wall time: 10.1 s
     23/03/07 17:47:53 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'.
 [4]: #tweet location distribution
[21]: t_loc = twitter.select('place')
[22]: t_loc = t_loc.filter(col('place').isNotNull())
[23]: t_loc.printSchema()
```

```
|-- place: struct (nullable = true)
           |-- bounding_box: struct (nullable = true)
                |-- coordinates: array (nullable = true)
                     |-- element: array (containsNull = true)
                          |-- element: array (containsNull = true)
                               |-- element: double (containsNull = true)
                |-- type: string (nullable = true)
           |-- country: string (nullable = true)
           |-- country_code: string (nullable = true)
           |-- full_name: string (nullable = true)
           |-- id: string (nullable = true)
           |-- name: string (nullable = true)
           |-- place_type: string (nullable = true)
           |-- url: string (nullable = true)
[24]: t_loc = t_loc.select(t_loc.place.country.alias('country'), t_loc.place.
      →full name.alias('place'))
[25]: t_loc
                    country
         -----+
      |Republic of the P...| Del Carmen, Caraga|
             United States
                                 Louisville, KY
             United States
                                   Lakeside, FL
             United States
                                      Duluth, MN |
             United States
                                      Quincy, MA
             United States | North Carolina, USA |
                                    Columbus, OH
             United States
             United States
                                      Quincy, MA
             United States
                                        Mesa, AZ|
                                 Middletown, RI
             United States
                    Nigeria | Victoria Island, ... |
                               Oklahoma City, OK
             United States
                  Australia | Kingaroy, Queensland |
                  Thailand | Amphoe Huai Thala... |
                                    Sandusky, OH |
             United States
                      Japan|
                               Meguro-ku, Tokyol
                    Belgium|
                               Louvain, Belgium
             United States | North Ridgeville, OH |
             United States
                                      Texas, USA|
             United Kingdom | Ballymena, Northe... |
      only showing top 20 rows
```

root

```
[26]: | country_ct = t_loc.groupby('country').agg(count('*').alias('count')).
       →orderBy(col('count').desc())
[27]: ct = country_ct
[27]: +----+
                   country | count |
             United States | 554287 |
            United Kingdom | 73793 |
                     India | 46194 |
      |Kingdom of Saudi ... | 38942|
                    Canada| 24913|
                   Nigeria | 24515 |
                 Australia | 10546 |
              South Africa | 10072|
         Ī
                l... 92481
                     Kenya| 7481|
                    Ireland | 6951
      |Republic of the P...| 6430|
                  Pakistan | 6155 |
                    Uganda| 5450|
                     Ghana | 4784 |
                  Indonesia | 2431|
               New Zealand | 2087 |
                  Malaysia | 1987 |
      |United Arab Emirates| 1638|
                    France | 1628 |
      +----+
      only showing top 20 rows
[32]: | ud = twitter.select(twitter.user.id.alias('user_id'), twitter.user.location.
      ⇔alias('user_loc'))
[34]: u_ct = ud.groupby('user_loc').agg(count('*').alias('count')).
      →orderBy(col('count').desc())
      u_ct_df = u_ct.limit(10).toPandas()
[35]: u_ct_df
[35]:
                user_loc
                             count
     0
                   None 39095205
      1
          United States
                          1268115
```

```
2
         Lagos, Nigeria
                          521610
                          443069
     3
               Nigeria
     4
                   USA
                          408068
                 India
     5
                          372519
     6 California, USA
                          352838
     7 Los Angeles, CA
                          345411
             Texas, USA
     8
                          314914
     9
           Florida, USA
                          294376
[36]: # check the amount of verified users
[37]: veri = twitter.select([twitter.user['id'].alias('user_id'),
                   twitter.user['verified'].alias('verified')])
[38]: verify = veri.filter(col('verified') == 'true')
[39]: perc = verify.count()/veri.count()
[40]: perc
[40]: 0.016028286880471698
[41]: 1-perc
[41]: 0.9839717131195282
[42]: influencer = spark.read.parquet('gs://chen26-bdp/infl')
[43]: influencer.orderBy(col('count').desc())
     ---+
     |count|
                       user_id|
                                   user_name|Max_reach|
     user_descrip|total_rct|
     +----+-----
     |12520|1128225338775953408| AndrianyRahmah| 218| hs game update news|
     13 l
     | 9201|
                     219401992 | DennisStemmle
                                                  3804|Founder - College...|
     4101
     | 7769|1508968207259869185|
                                      hilmsit|
                                                   353|
                                                            ...|
                                                                     17 l
     l 68091
                      66263683
                                 NJSchoolJobs|
                                                  4252|The leading adver...|
     540|
```

```
61
     | 6609|1577029442488061953|
                                     TeriWini|
                                                    37|
                                                                      null
     | 6549|1463182041147576321|
                                    sport9920|
                                                    95|Welcom TV listing...|
     | 6337 | 879496394691805184 |
                                 EssayPaperUK|
                                                   803|I AM The Documentary|
     | 6241|1582053513357537293|
                                    qiopalika|
                                                    18 l
                                                                      null
     | 6178|1473922978073165834|
                                 studyinnaija|
                                                    48|Find All Private ...|
     6039 | 1422259384525090818 |
                                 luv22 sports
                                                   139|Welcom TV listing...|
     1|
     | 5823|1338108136561856517| adeliasari033|
                                                    25 l
                                                         - ...|
                                                                      5|
     | 5776|1214364378150998019| LoveLiveFrames|
                                                   4919|
     Post Ev...
                  2219
     | 5658|1597301580914601985|
                                     LioujinS|
                                                    631
                                                                      null
     31
     | 5624|
                      73707872 indiaedudiary
                                                  1213 | One Stop Platform... |
     621
     | 5289|1329639203144011776| robson89148161|
                                                    35| HIgh School Sports|
     2|
     l 52631
                     901030512
                                  KOIN Malang
                                                   1721
                                                                      null
     31
     | 5209|1472159008886870028| chuokikuukenya|
                                                  97|Find All Universi...|
     | 5162|
                    2203526911|xo_coachingjobs| 5954|College & high sc...|
     575|
     | 5139|1468164097355264002|
                                                  199|THIS WEBSITE PROV...|
                                     group_kq|
     only showing top 20 rows
[47]: top50 = influencer.orderBy(col('count').desc()).limit(50).toPandas()
[48]: | ax = top50.plot(x='user_name', y= 'count', kind='barh', figsize = (12, 8))
     ax.set_ylabel('User Name')
     ax.set_xlabel('Total Posts')
     ax.set_title('Top 50 Amount of Total Posts by TwitterUsers')
     ax.invert_yaxis()
     # show the plot
```

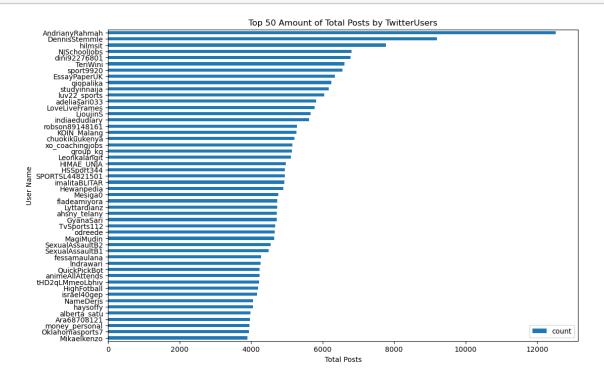
dini92276801

841

null|

| 6780|1576939116230455296|

plt.show()



[58]: top50

\	followers	user_name	user_id	Total_posts	[58]:
	218	AndrianyRahmah	1128225338775953408	12520	0
	3804	DennisStemmle	219401992	9201	1
	353	hilmsit	1508968207259869185	7769	2
	4252	NJSchoolJobs	66263683	6809	3
	84	dini92276801	1576939116230455296	6780	4
	37	TeriWini	1577029442488061953	6609	5
	95	sport9920	1463182041147576321	6549	6
	803	EssayPaperUK	879496394691805184	6337	7
	18	qiopalika	1582053513357537293	6241	8
	48	studyinnaija	1473922978073165834	6178	9
	139	luv22_sports	1422259384525090818	6039	10
	25	adeliasari033	1338108136561856517	5823	11
	4919	LoveLiveFrames	1214364378150998019	5776	12
	63	LioujinS	1597301580914601985	5658	13
	1213	indiaedudiary	73707872	5624	14

15	5289	1329639203144011776	robson89148161	35
16	5263	901030512	${\tt KOIN_Malang}$	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	$\mathtt{QuickPickBot}$	2
39	4231	1238273276994039809	${\tt animeAllAttends}$	72
40	4223	1170532065965555712	${\tt tHD2qLMmeoLbhiv}$	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

Description \

0

hs game update news

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2

High School Today

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4
None
5
None
                                          Welcom TV listing for all\nEnjoy your
watching live sports - Football, Basketball and more (Click the link below the
description)
7
I AM The Documentary
None
Find All Private & Public Universities, Colleges and TVETs and Courses Offered
in Nigeria.
                         Welcom TV listing for all Live sports\nEnjoy your
watching live sports - Football, Basketball and many more (Click the link below
the description)
  | High School Football America\n
                                                https://nbc.ontv-
sport.com/hsf.php
                                                     \nPost Every Love Live!
Nijigaku!!. 1 Frame each 5 minutes \nJoin us on Discord
\nhttp://discord.com/invite/5T6cXH4...
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             One Stop Platform on #Education. Follow Us to know the latest in
Indian & Global Education , research, books, literature, academics and education
sector news
15
HIgh School Sports
16
None
                                                                  Find All
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University & College Courses Offered in Kenya. Private & Public Universities,
Colleges and TVETs
18
       College & high school job postings for coaches. Visit
https://t.co/mgqZWfkP3B for complete list. For resume, portfolio, & interview
help https://t.co/s4188TujnS
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                           THIS WEBSITE PROVIDE LATEST NEWS ON EDUCATION.
Continue To help US FOR LATEST NEWS AND WE WILL PROVIDE BEST OF OUR EFFORTS TO
MAKE YOU UPDATED
20
student athlete
21
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22
official account of all matches\n visit our facebook page
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25
None
26
Sports Live Broadcast
27
None
28
United States
None
30
There's nothing to lose
31
sports
32
thank you for following us
33
None
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
38
None
39
None
We like Suits. We like Outdoor fashion and Sneakers
too.\n
41
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45
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46
Te
Follow for exclusive #deals and #selfhelp resources. #OnlineDeals for you.
None
49
None
    {\tt total\_number\_retweets}
0
                        13
                       410
1
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                        17
3
                       540
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                         6
5
                         1
6
                        69
7
                         3
                         3
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10
                         1
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                         5
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                      2219
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                         3
14
                        62
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                        14
18
                       575
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                        46
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                        1
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                             4
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                             1
     39
                            25
     40
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     41
                             4
     42
                             2
     43
                             5
     44
                             4
     45
                            13
     46
                             1
     47
                           308
     48
                             2
     49
                             1
[59]: veri = veri.dropDuplicates(['user_id'])
[60]: user_veri = influencer.join(veri, influencer.user_id == veri.user_id, 'inner').
       →drop(veri.user_id)
 []: user_veri
                                                                   (1236 + 6) / 1323
     [Stage 36:=====
[63]: top50_rt = user_veri.orderBy(col('total_rct').desc()).limit(50).toPandas()
[65]: top50_rt = top50_rt.rename(columns={'total_rct': 'total_number_retweets',__
       'count': 'Total_posts'})
[66]:
     top50_rt
[66]:
         Total_posts
                                  user_id
                                                 user name
                                                            followers \
     0
                  52
                      1326229737551912960
                                              libsoftiktok
                                                              1893691
     1
                  17
                                878284831
                                           OccupyDemocrats
                                                               504212
     2
                  17
                               3317348164
                                             NasimiShabnam
                                                                71862
     3
                                              NoLieWithBTC
                                                               338956
                  15
                      1268223690480615424
     4
                  10
                                              SportsCenter
                                 26257166
                                                             41400369
                  49
     5
                               1915033663
                                              davidhogg111
                                                              1267103
     6
                  51
                                               Phil_Lewis_
                                                               300076
                                286998245
     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	6	1194402576197775360	imzarvinnn	58848
41	3	1340985810741391360	imzarvinnn	21195
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

Description \

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

```
2
                                                 Policy Special Advisor to the
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                                                        Podcast covering the top
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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
                                   writer, comic, queer. i live tweeted the
birth of my baby. @funnyordie @newrootsartists @humordarling mgmt: waldorf
entertainment
                                                Human Rights Lawyer • Author •
Dad Jokes • Host of The Qasim Rashid Show on Sirius XM Channel 126 Sundays @
10am EST
              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 | #FLO3 | 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
22
Serving sports fans. Anytime. Anywhere.
                                                             Teacher, podcaster,
and former Democratic Nominee for State Representative in MO HD1.
#DirtRoadDemocrat
     | News Junkie | Politics | Foreign Affairs | National Security | Observer &
Analyst | i tweet informative facts and opinions |
http://www.youtube.com/AskAnshul
One thing I've learned is that my older brother knows best.
turn notis on
thee real Htown Hottie
We are celebrating 25 glorious years of #KIIT\n#KIITat25
21 year old college athlete at NYU. Kapa Sigma. Looking for my little bro
30
Astrophysicist
                 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.
dove clarke's Public Online Diary
                                      #mmip
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
I'm running for governor to serve ALL the people of Texas.
don't blame me, I voted for the email lady
                                     writer of @tinyfairytales
patron saint of sad boys
                           she/her
39
                                     As a kid, I wanted to be a superhero,
```

psychologist, philanthropist, philosopher, actor and comedian... So I became a teacher.

40

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

for promotions collab ,rt's & partnerships

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

42

None

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

44

. 1 O'Hare & Drax |

@BigPippinFX

45

 $\tt HBCU$ Most Viewed Sports Twitter Site \n Your #1 Source of $\tt HBCU$ 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!

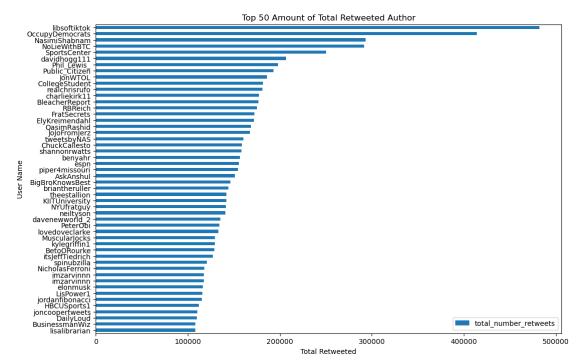
Professor @IllinoisLibrary & Affiliate Faculty @iSchoolUI; Faculty Board of @IllinoisPress; Boards of @ScholarlyPub & @ORCID_Org; Chef @ScholarlyKitchn

	total_number_retweets	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

```
16
                                        True
                           168907
      17
                           167801
                                       False
                                       False
      18
                           160350
      19
                           158604
                                        True
      20
                           158155
                                        True
      21
                                       False
                           156440
      22
                           155383
                                        True
      23
                                        True
                           154380
      24
                           151074
                                        True
      25
                                       False
                           146182
      26
                           144214
                                       False
      27
                           142205
                                        True
      28
                           141749
                                        True
      29
                                       False
                           141225
      30
                           140754
                                        True
      31
                                       False
                           135219
      32
                                        True
                           134576
      33
                                       False
                           133533
      34
                           129666
                                       False
      35
                           129375
                                        True
      36
                                        True
                           128688
      37
                           127128
                                       False
      38
                           120740
                                       False
      39
                           118242
                                        True
      40
                           117241
                                       False
                                       False
      41
                           117241
      42
                           116620
                                        True
      43
                           115704
                                        True
      44
                                       False
                           115110
                                       False
      45
                           111771
      46
                                        True
                           110298
      47
                                       False
                           109678
      48
                                       False
                           108450
      49
                           108293
                                       False
[69]: len(top50_rt[top50_rt['verified'] == True])
[69]: 28
[71]: ax = top50_rt.plot(x='user_name', y= 'total_number_retweets', kind='barh', u
       \hookrightarrow figsize = (12, 8))
      ax.set_ylabel('User Name')
      ax.set_xlabel('Total Retweeted')
      ax.set_title('Top 50 Amount of Total Retweeted Author')
      ax.invert_yaxis()
```

False

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



```
[72]: user_veri = user_veri.withColumn('t_avg_reach', col('total_rct')/col('count'))\
.withColumn('inf_score',

→col('t_avg_reach')*col('Max_reach'))
```

[73]: user_veri

```
-----+
|count|user_id|
            user_name|Max_reach| user_descrip|total_rct|verified|
              inf_score
t_avg_reach|
+----+
      418|
                 dens | 83191 | I like to build t... | 10 | true |
5.0|
         415955.0
  1| 7499|
                Naija| 4668|We handle what ma...| 3|
                                                  false
3.01
         14004.0
 4| 10078| reidhoffman| 652434|Entrepreneur. Inv...|
                                             38|
                                                 true
9.5
        6198123.0
   1 | 10178 | stoweboyd | 19020 | The past, present... |
                                              2|
                                                  false
```

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2.01
             38040.0|
    4 | 10237 | Chuckumentary
                                                            2|
                             10314|boreal human with...|
                                                                 false
0.5|
              5157.0
    6| 40403|
                  rosemary
                               1235 | Design web etc at... |
false | 0.3333333333333333411.66666666666663 |
    4 | 41243 |
                adliterate
                              12719|High octane brand...|
                                                            3|
                                                                 false
0.751
              9539.25
    2 | 60033 |
                   andybudd|
                              65955|Design Founder, s...|
                                                            8|
                                                                 false
4.01
            263820.01
    7| 77983|
                               2167 | leftie feminist s... |
                                                           10|
                  pickwick|
false|1.4285714285714286| 3095.714285714286|
    9 | 618373 | superflippy
                               3264|I believe art & s...|
false | 0.11111111111111111111362.66666666666663 |
    9 | 649713 |
                       roml
                               3506|Proud member of t...|
                                                            3|
false | 0.33333333333333311168.666666666665 |
    1 | 711913 | _eseidel |
                              14140|Leading http://sh...|
                                                           18|
                                                                 false
18.0
             254520.0|
    1 | 739743 |
                              38984|Trying to spread ...| 1|
                   shareski
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1.0|
             38984.0|
    5 | 755284 |
                    logic
                             9184|Pseudogeek | Free...|
                                                           30|
                                                                 false
6.01
             55104.0
                  fuzheado|
    1 | 755959 |
                              21523|Wikimedian-at-lar...|
                                                           12|
                                                                 falsel
12.01
             258276.0
    2 | 783136 |
                UsmanKemal
                             706 | An entrepreneur, ... |
                                                            1 |
                                                                 falsel
0.51
               353.0|
    3 | 785137 | michaelwhitney | 13073 | go bills. fundrai... |
                                                                 falsel
2.01
             26146.0
    6 | 795789 | carynrose | 10922 | Music writer, res... | 33 |
true
5.5
             60071.0|
    1 | 807515 | jonfroehlich | 5052 | Associate Profess... |
                                                           14|
                                                                 false
14.0|
              70728.0
                               5078 making lives bett... | 2|
    1 | 814261 |
                moritherapy|
                                                                 false
2.01
             10156.0
+----+
----+
only showing top 20 rows
```

[]: topinf = user_veri.orderBy(col('inf_score').desc()).limit(50).toPandas()

[75]: topinf [75]: count user_id user_name Max_reach \ 0 1 44196397 elonmusk 106476100 3 1 18839785 narendramodi 84850082 2 1 19725644 neiltyson 14805242

3	1	23375688	selenagomez	65889944
4	1	1339835893	HillaryClinton	31426778
5	1	122453931	ImranKhanPTI	17789483
6	1	104040220	theestallion	7600799
7	10	26257166	SportsCenter	41400369
8	4	1349149096909668363	POTUS	29370914
9	2	216776631	BernieSanders	15731059
10	1	884378714	SMTOWNGLOBAL	11294965
11	2	30354991	KamalaHarris	19817342
12	3	19923144	NBA	42052619
13	4	5402612	BBCBreaking	51629170
14	1	409486555	MichelleObama	22224422
15	1	192947735	davido	11358735
16	1	139162440	pattonoswalt	4759822
17	1	16548023	9GAG	16834659
18	1	2893511188	VancityReynolds	21111665
19	28	2557521	espn	44930065
20	1	2233154425	StephenKing	6898034
21	2	39344374	${\tt DonaldJTrumpJr}$	9570559
22	1	471741741	PMOIndia	51115349
23	1	3004231	${\tt SnoopDogg}$	21008579
24	1	256883252	sza	7023472
25	1	348379865	Dior	8794149
26	1	2455740283	MrBeast	13958152
27	6	428333	cnnbrk	64160677
28	1	1349154719386775552	FLOTUS	3945634
29	1	14335586	Public_Citizen	535244
30	1	226222147	PeteButtigieg	3715458
31	24	890891	BleacherReport	13501984
32	1	737453313352962048	griffinbarrowsx	937968
33	7	803694179079458816	VP	13793901
34	1	1006419421244678144	GretaThunberg	5068177
35	1	2719753171	PawanKalyan	5173372
36	1	783792992	IlhanMN	3066097
37	1	152251488	dhanushkraja	10743392
38	1	36686040	RepMaxineWaters	1696868
39	2	51263592	AdamSchefter	10076219
40	1	4914384040	TheBabylonBee	2112259
41	1	453507741	MaryamNSharif	7634548
42	1	2526794479	MamataOfficial	6754321
43 44	2 1	1447949844	AmitShah	29472484
44 45	3	259001548 34197952	kayleighmcenany anandmahindra	3120884 9279566
46	1	304679484	MarkHamill	
47	1	1346439824	rajnathsingh	5225664 23339829
47 48	1	1032978119370723329	tommyinnit	3973324
49	1	216881337	RandPaul	4370941
43	T	210001337	nanuraul	7010341

```
user_descrip
\
None
Prime Minister of India
Astrophysicist
REVELACIÓN out now: http://smarturl.it/REVELACIONSG
      2016 Democratic Nominee, SecState, Senator, hair icon. Mom, Wife, Grandma
x3, lawyer, advocate, fan of walks in the woods & standing up for our democracy.
                                                                        Chairman
Pakistan Tehreek-e-Insaf & former Prime Minister of Islamic Republic of Pakistan
thee real Htown Hottie
Download the ESPN App
        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
U.S. Senator for Vermont. Not me, us.
SMEntertainment Group Official Twitter
Fighting for the people. Wife, Momala, Auntie. She/her. Official account is @VP.
                                          The 2022-23 NBA season continues
Monday on NBA TV! 7:30pm/et: @Lakers/@BrooklynNets | 10pm/et:
@ATLHawks/@trailblazers
     Breaking news alerts and updates from the BBC. For news, features, analysis
follow @BBCWorld (international) or @BBCNews (UK). Latest sport news @BBCSport.
                                               Girl from the South Side and
former First Lady. Wife, mother, dog lover. Always hugger-in-chief.
#TheLightWeCarry
15
STAND STRONG OUT NOW! Link below!
                                    inquiries: davido@bfaandcolegal.com
                                 New @Netflix special WE ALL SCREAM now
streaming!!!MINOR THREATS from @DarkHorse out now! I like making stuff. IG:
pattonoswalt
17
Building @MEMELAND one meme at a time • 9gag@9gag.com • CEO
owner: @aviationgin - @MintMobile - @maximumeffort - @Wrexham_AFC
Serving sports fans. Anytime. Anywhere.
```

```
20
Author
21 Future leader Ministry of Truth, Father, Outdoorsman, Meme War General,
founder: MxM News, Field Ethos Journal, Winning Team Publishing Pronouns:
The/she/it
Office of the Prime Minister of India
"I STILL GOT IT" mixtape OUT NOW
24
None
                       "Women, with their intuitive instinct, understood that I
dreamed not only of making them more beautiful, but happier too." Christian Dior
26
I want to make the world a better place before I die
       Breaking news from CNN Digital. Now 64M strong. Check @cnn for all things
CNN, breaking and more. Download the app for custom alerts: http://cnn.com/apps
                                           First Lady of the United States Jill
Biden. Community college educator. Military mother. Grandmother. Wife of @POTUS.
     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.
                       Personal account. For official updates, follow
@SecretaryPete. Husband, father, veteran, writer, South Bend's former Mayor
Pete. (he/him)
Become a B/R Insider and help shape the future of the app
               http://OnlyFans.com/GriffinBarrows - http://tumblr.com/griffin-
barrows-x - Instagram: GriffinBarrowsXX - Email:
griffinbarrowscontact@gmail.com
                                               Vice President of the United
33
States. Wife to the first @SecondGentleman. Momala. Auntie. Fighting for the
people.
Climate- and environmental activist with Asperger's Born at 375 ppm
             .. JaiHind!
36 Mom, Refugee and Congresswoman for #MN05. Progressive Caucus Whip. Fighting
for a more just world. Grassroots funded progressive http://HC.com/IlhanOmar
37
ASURAN/Actor
                          Proudly serving the people of California's 43rd
District in Congress. Chairwoman of the House Financial Services Committee
(@FSCDems).
39
                  ESPN Senior NFL Insider. \nInterview & Podcast Requests:
ESPNPR@espn.com\nHost of the Adam Schefter
```

Podcast\nhttp://Instagram.com/AdamSchefter

Fake news you can trust. Follow our podcast account @babylonbeepod JOIN US at #BeeLIVE Feb. 24.

41 We cloak our cowardice with the ill-fitting garment of political correctness. To a coward, courage always looks like stupidity. Fortune favours the brave.

The Official Twitter of Mamata Banerjee, founder Chairperson All India Trinamool Congress. Honourable Chief Minister, West Bengal.

 $$\operatorname{\textsc{Minister}}$$ Union Home Minister, Minister of Cooperation and MP, Gandhinagar Lok Sabha.

http://www.instagram.com/amitshahofficial

 $$\tt 44$$ Co-host <code>@OutnumberedFNC.Fmr.White House Press Secretary. Author of "For Such a Time as This." Harvard Law. Georgetown SFS. </code>

45

Chairman & Team member, Covid-19 Fighters, Mahindra Group

Believe in yourself! Work hard, never give up & anything's possible! OR: Kick back, relax & aim low: You'll never be disappointed... I IGNORE ALL DMs!

47

, Defence Minister of India

48 incredibly influential gamer - you can pre-order mine & wilbur's book here

http://tommyinnit.com/

49 U.S. Senator for Kentucky \mid I fight for the Constitution, individual liberty and the freedoms that make this country great.

	total_rct	verified	${ t t}_{ t avg}{ t reach}$	inf_score
0	116620	True	116620.000000	1.241724e+13
1	80295	True	26765.000000	2.271012e+12
2	140754	True	140754.000000	2.083897e+12
3	25761	True	25761.000000	1.697391e+12
4	48751	True	48751.000000	1.532087e+12
5	65561	True	65561.000000	1.166296e+12
6	142205	True	142205.000000	1.080872e+12
7	250517	True	25051.700000	1.037150e+12
8	92863	True	23215.750000	6.818678e+11
9	84233	True	42116.500000	6.625371e+11
10	55483	True	55483.000000	6.266785e+11
11	40615	True	20307.500000	4.024407e+11
12	24773	True	8257.666667	3.472565e+11
13	24352	True	6088.000000	3.143184e+11
14	13839	True	13839.000000	3.075638e+11
15	26465	True	26465.000000	3.006089e+11
16	59394	True	59394.000000	2.827049e+11
17	16293	True	16293.000000	2.742871e+11
18	12227	True	12227.000000	2.581323e+11

```
20
              33423
                          True
                                 33423.000000
                                               2.305530e+11
      21
              45641
                          True
                                 22820.500000
                                               2.184049e+11
      22
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                                               2.054837e+11
      23
                          True
                                  8938.000000
               8938
                                               1.877747e+11
      24
                          True
                                 25846.000000
                                               1.815287e+11
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      25
                          True
              13342
                                 13342.000000
                                               1.173315e+11
      26
               7842
                          True
                                  7842.000000
                                               1.094598e+11
      27
              10052
                          True
                                  1675.333333
                                               1.074905e+11
      28
                          True
              26422
                                 26422.000000
                                               1.042515e+11
                          True
      29
             193203
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                                               1.034107e+11
      30
              27446
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                                 27446.000000
                                               1.019745e+11
      31
             176982
                          True
                                  7374.250000
                                               9.956701e+10
      32
             102388
                        False
                                102388.000000
                                               9.603667e+10
      33
              46501
                          True
                                  6643.000000
                                               9.163288e+10
      34
              17972
                          True
                                 17972.000000
                                               9.108528e+10
      35
                          True
                                 17411.000000
                                               9.007358e+10
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      36
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              28348
                                 28348.000000
                                               8.691772e+10
      37
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                          True
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                                               8.487280e+10
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                                               8.336560e+10
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              38996
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                                 10718.000000
                                               8.182709e+10
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                          True
                                 11817.000000
                                               7.981581e+10
      43
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               5327
                                  2663.500000
                                               7.849996e+10
      44
              24875
                          True
                                 24875.000000
                                               7.763199e+10
      45
              25028
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                                  8342.666667
                                               7.741633e+10
      46
                          True
              13912
                                 13912.000000
                                               7.269944e+10
                                  2662.000000
      47
               2662
                          True
                                               6.213062e+10
      48
              14263
                          True
                                 14263.000000
                                               5.667152e+10
      49
                                 12875.000000
              12875
                          True
                                               5.627587e+10
[78]: topinf = topinf.rename(columns={'total_rct': 'Total_Number_Retweets',_
       'count': 'Total_Posts', 't_avg_reach':

       →'Average_Reach', 'inf_score': 'Influence_Score'})
[79]:
     topinf
[79]:
          Total_posts
                                    user_id
                                                    user_name
                                                               followers
                                                     elonmusk
                                                               106476100
      0
                    1
                                   44196397
      1
                    3
                                   18839785
                                                 narendramodi
                                                                84850082
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                    1
                                                    neiltyson
                                   19725644
                                                                14805242
      3
                    1
                                   23375688
                                                  selenagomez
                                                                65889944
      4
                    1
                                 1339835893
                                              HillaryClinton
                                                                31426778
      5
                    1
                                  122453931
                                                 ImranKhanPTI
                                                                17789483
                    1
                                  104040220
                                                 theestallion
                                                                 7600799
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19

155383

True

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2.493346e+11

8 4 1349149096909668363 POTUS 29370914 9 2 216776631 BernieSanders 15731059 10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 42052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 MichelleObama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 2893511188 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 223315425 StephenKing 6898034 21 2 39344374 DonaldJTrumpJr 9570559 22 1 471741741 PMOIndia	8 4 1349149096909668363 POTUS 29370914 9 2 216776631 BernieSanders 15731059 10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 42052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 MichelleObama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 2893511188 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 223154425 StephenKing 6898034 21 2 39344374 DonaldJTrumpJr 9570559 22 1 471741741 PMOIndia	7	10	26257166	SportsCenter	41400369
9 2 216776631 BernieSanders 15731059 10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 4052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 MichelleObama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 2893511188 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 2233154425 StephenKing 6898034 21 2 39344374 DonaldJTrumpJr 9570559 22 1 471741741 PMOIndia 51115349 23 1 256883252 sza 70	9 2 216776631 BernieSanders 15731059 10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 42052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 MichelleObama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 289351118 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 2233154425 StephenKing 6898034 21 2 39344374 DonaldJTrumplr 9570559 22 1 471741741 PMOIndia 51115349 23 1 3004231 Snoopbogg <t< td=""><td></td><td></td><td></td><td>_</td><td></td></t<>				_	
10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 42052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 Michellelobama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 2893511188 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 2233154425 StephenKing 6898034 21 2 39344374 DonaldJTrumpJr 9570559 22 1 471741741 PMOIndia 51115349 23 1 3004231 SnoopDogg 21008579 24 1 2455740283 MrBeast	10 1 884378714 SMTOWNGLOBAL 11294965 11 2 30354991 KamalaHarris 19817342 12 3 19923144 NBA 42052619 13 4 5402612 BBCBreaking 51629170 14 1 409486555 Michelledbama 22224422 15 1 192947735 davido 11358735 16 1 139162440 pattonoswalt 4759822 17 1 16548023 9GAG 16834659 18 1 2893511188 VancityReynolds 21111665 19 28 2557521 espn 44930065 20 1 2233154425 StephenKing 6898034 21 2 39344374 DonaldJTrumpJr 9570559 22 1 471741741 PMOIndia 51115349 23 1 3004231 SnoopDogs 21008579 24 1 2455740283 MrBeast 1					
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Description

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43 Union Home Minister, Minister of

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47

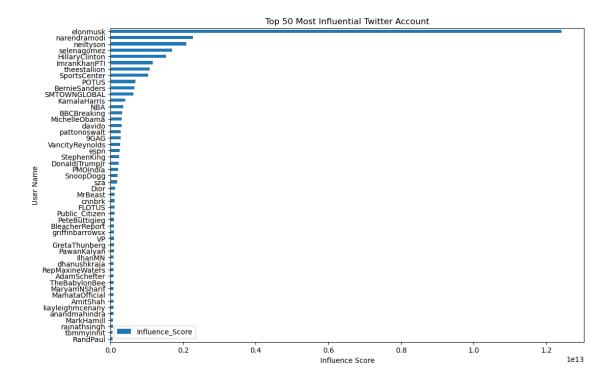
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2	140754	True	140754.000000	2.083897e+12
3	25761	True	25761.000000	1.697391e+12
4	48751	True	48751.000000	1.532087e+12
5	65561	True	65561.000000	1.166296e+12
6	142205	True	142205.000000	1.080872e+12
7	250517	True	25051.700000	1.037150e+12
8	92863	True	23215.750000	6.818678e+11
9	84233	True	42116.500000	6.625371e+11
10	55483	True	55483.000000	6.266785e+11
11	40615	True	20307.500000	4.024407e+11
12	24773	True	8257.666667	3.472565e+11
13	24352	True	6088.000000	3.143184e+11
14	13839	True	13839.000000	3.075638e+11
15	26465	True	26465.000000	3.006089e+11
16	59394	True	59394.000000	2.827049e+11
17	16293	True	16293.000000	2.742871e+11
18	12227	True	12227.000000	2.581323e+11
19	155383	True	5549.392857	2.493346e+11
20	33423	True	33423.000000	2.305530e+11
21	45641	True	22820.500000	2.184049e+11
22	4020	True	4020.000000	2.054837e+11

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23
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                                                                 1.815287e+11
      25
                           13342
                                       True
                                               13342.000000
                                                                 1.173315e+11
      26
                            7842
                                       True
                                                7842.000000
                                                                 1.094598e+11
      27
                           10052
                                       True
                                                1675.333333
                                                                 1.074905e+11
      28
                           26422
                                       True
                                               26422.000000
                                                                 1.042515e+11
      29
                                       True 193203.000000
                                                                 1.034107e+11
                          193203
      30
                           27446
                                       True
                                               27446.000000
                                                                 1.019745e+11
      31
                                                                 9.956701e+10
                          176982
                                       True
                                                7374.250000
      32
                                      False
                                              102388.000000
                                                                 9.603667e+10
                          102388
      33
                                       True
                           46501
                                                6643.000000
                                                                 9.163288e+10
      34
                           17972
                                       True
                                               17972.000000
                                                                 9.108528e+10
      35
                           17411
                                       True
                                               17411.000000
                                                                 9.007358e+10
      36
                           28348
                                       True
                                               28348.000000
                                                                 8.691772e+10
      37
                                       True
                                                                 8.487280e+10
                            7900
                                               7900.000000
      38
                           49622
                                       True
                                               49622.000000
                                                                 8.420198e+10
      39
                           16547
                                       True
                                                8273.500000
                                                                 8.336560e+10
      40
                                       True
                                               38996.000000
                           38996
                                                                 8.236965e+10
      41
                           10718
                                       True
                                               10718.000000
                                                                 8.182709e+10
      42
                                       True
                                               11817.000000
                                                                 7.981581e+10
                           11817
      43
                                       True
                            5327
                                                2663.500000
                                                                 7.849996e+10
      44
                                       True
                                               24875.000000
                                                                 7.763199e+10
                           24875
      45
                           25028
                                       True
                                                8342.666667
                                                                 7.741633e+10
      46
                                       True
                           13912
                                               13912.000000
                                                                 7.269944e+10
      47
                                       True
                                                2662.000000
                                                                 6.213062e+10
                            2662
      48
                           14263
                                       True
                                               14263.000000
                                                                 5.667152e+10
      49
                           12875
                                       True
                                               12875.000000
                                                                 5.627587e+10
[80]: | ax = topinf.plot(x='user_name', y= 'Influence_Score', kind='barh', figsize = __
       \hookrightarrow (12, 8))
      ax.set_ylabel('User Name')
      ax.set_xlabel('Influence Score')
      ax.set_title('Top 50 Most Influential Twitter Account')
      ax.invert_yaxis()
      # show the plot
      plt.show()
```



[]: