## Final\_Project\_3

### March 10, 2023

# Influence 2 [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 9.42 ms, sys: 863 µs, total: 10.3 ms Wall time: 8.68 s 23/03/05 22:05:01 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]: %%time influencer = spark.read.parquet('gs://chen26-bdp/infl') CPU times: user 0 ns, sys: 4.35 ms, total: 4.35 ms Wall time: 566 ms []: # new metrics # average reach of the user's post per post # average reach \* the number of followers of the user as score

[12]: influence

: +	+	+-	+		
	•	+-		•	
cou			user_name Ma		I
		p total_rct  	_		_score  
		+-			
	4	484980949	000Dillon000	3504	Independent, Chri
3		0.75	2628.0		_
1	2 1533	841444225839104	000Shub000	1	null
1		0.5	0.5		
1	1	129785606	000fukumoto	3078	Political science
8		8.0	24624.0		
1	1	348591369	001Sardar	680	nul]
1		1.0	680.0		
1	1	4636687154	0027Woo	58513	PROBLEMATIC CON
15		15.0	877695.0		
13	32	2583636176 0	03rohitsunami	211	null
458	3.46969	69696969697  732.	1060606060606		
1	1 1399	826340099112964	007Plangzak	77	Journalist, photo
4		4.0	308.0		_
1	3	43588936	007NIL	12616	I Like Scotland &
2 0.6	666666	666666666 8410.6	6666666666		
1	2 1317	159854977462274 0	07enterprises	78	Your plug for War
1		0.5	39.0		
- 1	2 1286	450080485126146	007girl12	457	Child of God. Wal
2		1.0	457.0		
1	5	276525537	007mss	3898	Conservative, Chr
9		1.8  7016.4	0000000001		
1	2  994	464446486532097	007saifalam	498	A Civil Engineer
1		0.5	249.0		J
1	1 1557	695863883014145	009Ahmadi	11	null
4		4.0	44.0		
1	1 1395	721565019459589	00_EM01	1047	Too ambitious to
14		14.0	14658.0		
- 1	1	1396776462	00daize	527	22 • nicki • no
3		3.0	1581.0		
1	1	246031716	00nicolette	571	I'm So Meta, Even
6		6.0	3426.0		·
	8  726	104454982836224	00xxvv650	6547	<b></b>
121		15.125	99023.375	-	
i	511582	606339330768898	01DuaF	389	null

```
13|
                   2.6|1011.4000000000001|
         1|1286742038923313152| 01rinette|
                                         876| intp r...|
    113|
                  113.0|
                                 98988.0|
        2|
                 4613659461
                                                   person / ltd. edi...|
    01sth02|
                                         18440|
    11|
                  5.5|
                             101420.0|
    -----+
    only showing top 20 rows
[14]: desc_score = influence.orderBy(col('inf_score').desc())
[16]: top50_inf = desc_score.limit(50)
    top50_inf_df = top50_inf.toPandas()
```

## [17]: top50\_inf\_df

[17]:		count	user_id	user_name	Max_reach	\
	0	1	44196397	elonmusk	106476100	
	1	3	18839785	narendramodi	84850082	
	2	1	19725644	neiltyson	14805242	
	3	1	23375688	selenagomez	65889944	
	4	1	1339835893	HillaryClinton	31426778	
	5	1	122453931	${\tt ImranKhanPTI}$	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	${\tt BBCBreaking}$	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	

```
29
        1
                       14335586
                                  Public_Citizen
                                                      535244
30
        1
                      226222147
                                   PeteButtigieg
                                                     3715458
31
       24
                         890891
                                  BleacherReport
                                                    13501984
32
        1
            737453313352962048
                                 griffinbarrowsx
                                                      937968
33
        7
            803694179079458816
                                              VΡ
                                                    13793901
34
        1
           1006419421244678144
                                   GretaThunberg
                                                     5068177
        1
35
                    2719753171
                                     PawanKalyan
                                                     5173372
36
        1
                                         IlhanMN
                     783792992
                                                     3066097
37
        1
                                    dhanushkraja
                      152251488
                                                    10743392
38
        1
                                 RepMaxineWaters
                       36686040
                                                     1696868
39
        2
                       51263592
                                    AdamSchefter
                                                    10076219
40
        1
                    4914384040
                                   TheBabylonBee
                                                     2112259
41
        1
                     453507741
                                   MaryamNSharif
                                                     7634548
42
        1
                                  MamataOfficial
                    2526794479
                                                     6754321
        2
43
                    1447949844
                                        AmitShah
                                                    29472484
44
        1
                     259001548
                                 kayleighmcenany
                                                     3120884
45
        3
                                   anandmahindra
                       34197952
                                                     9279566
46
        1
                     304679484
                                      MarkHamill
                                                     5225664
                                    rajnathsingh
47
        1
                                                    23339829
                    1346439824
48
        1
           1032978119370723329
                                      tommyinnit
                                                     3973324
49
        1
                     216881337
                                        RandPaul
                                                     4370941
                                                                      user_descrip
\
0
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)
U.S. Senator for Vermont. Not me, us.
```

FLOTUS

```
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
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
22
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
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
30
```

@SecretaryPete. Husband, father, veteran, writer, South Bend's former Mayor

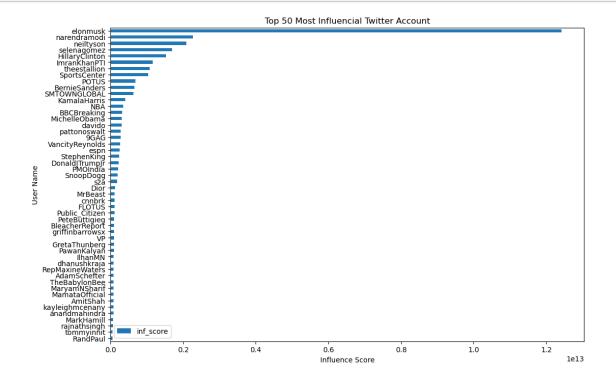
Pete. (he/him)

```
31
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
States. Wife to the first @SecondGentleman. Momala. Auntie. Fighting for the
people.
Climate- and environmental activist with Asperger's Born at 375 ppm
35
             .. 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).
                  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.
      We cloak our cowardice with the ill-fitting garment of political
correctness. To a coward, courage always looks like stupidity. Fortune favours
the brave.
42
                              The Official Twitter of Mamata Banerjee, founder
Chairperson All India Trinamool Congress. Honourable Chief Minister, West
43
                                           Union Home Minister, Minister of
Cooperation and MP, Gandhinagar Lok Sabha.
http://www.instagram.com/amitshahofficial
                                    Co-host @OutnumberedFNC. Fmr. White House
Press Secretary. Author of "For Such a Time as This." Harvard Law. Georgetown
SFS.
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
                                                               incredibly
influential gamer - you can pre-order mine & wilbur's book here
http://tommyinnit.com/
49
                                     U.S. Senator for Kentucky | I fight for the
```

Constitution, individual liberty and the freedoms that make this country great.

	total_rct	${ t t\_avg\_reach}$	inf_score
0	116620	116620.000000	1.241724e+13
1	80295	26765.000000	2.271012e+12
2	140754	140754.000000	2.083897e+12
3	25761	25761.000000	1.697391e+12
4	48751	48751.000000	1.532087e+12
5	65561	65561.000000	1.166296e+12
6	142205	142205.000000	1.080872e+12
7	250517	25051.700000	1.037150e+12
8	92863	23215.750000	6.818678e+11
9	84233	42116.500000	6.625371e+11
10	55483	55483.000000	6.266785e+11
11	40615	20307.500000	4.024407e+11
12	24773	8257.666667	3.472565e+11
13	24352	6088.000000	3.143184e+11
14	13839	13839.000000	3.075638e+11
15	26465	26465.000000	3.006089e+11
16	59394	59394.000000	2.827049e+11
17	16293	16293.000000	2.742871e+11
18	12227	12227.000000	2.581323e+11
19	155383	5549.392857	2.493346e+11
20	33423	33423.000000	2.305530e+11
21	45641	22820.500000	2.184049e+11
22	4020	4020.000000	2.054837e+11
23	8938	8938.000000	1.877747e+11
24	25846	25846.000000	1.815287e+11
25	13342	13342.000000	1.173315e+11
26	7842	7842.000000	1.094598e+11
27	10052	1675.333333	1.074905e+11
28	26422	26422.000000	1.042515e+11
29	193203	193203.000000	1.034107e+11
30	27446	27446.000000	1.019745e+11
31	176982	7374.250000	9.956701e+10
32	102388	102388.000000	9.603667e+10
33	46501	6643.000000	9.163288e+10
34	17972	17972.000000	9.108528e+10
35	17411	17411.000000	9.007358e+10
36	28348	28348.000000	8.691772e+10
37	7900	7900.000000	8.487280e+10
38	49622	49622.000000	8.420198e+10
39	16547	8273.500000	8.336560e+10
40	38996	38996.000000	8.236965e+10
41	10718	10718.000000	8.182709e+10
42	11817	11817.000000	7.981581e+10
43	5327	2663.500000	7.849996e+10

```
44
              24875
                      24875.000000 7.763199e+10
              25028
      45
                      8342.666667
                                     7.741633e+10
      46
              13912
                      13912.000000
                                     7.269944e+10
      47
               2662
                       2662.000000 6.213062e+10
      48
              14263
                       14263.000000
                                     5.667152e+10
      49
              12875
                       12875.000000 5.627587e+10
[18]: | ax = top50_inf_df.plot(x='user_name', y= 'inf_score', kind='barh', figsize =__
       \hookrightarrow (12, 8))
      ax.set_ylabel('User Name')
      ax.set_xlabel('Influence Score')
      ax.set_title('Top 50 Most Influencial Twitter Account')
      ax.invert_yaxis()
      # show the plot
      plt.show()
```



```
[ ]: # k-12

[6]: keywords = ['k12', 'k-12']
   twitter = twitter.withColumn('lower', lower(col('text')))
   k12 = twitter.filter(col('lower').rlike('|'.join(keywords)))
   k12 = k12.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())
     k12 = k12.filter(filter_udf(eng_ord('text')) == True)
[7]: k12.count()
[7]: 175739
[36]: k12 df = k12.
      →select('user','created_at','extended_tweet','retweeted_status','text','id','retweeted_from'
[37]: k12 df = k12 df.withColumn("user_id", col("user").getItem("id")).
                    withColumn('user_name', col('user').getItem('screen_name')).\
                    withColumn('user_location',col('user').getItem('location')).\
                    withColumn('user_description',col('user').
      withColumn('followers_count',col('user').
      →getItem('followers_count')).\
                    withColumn('retweet_count', col('retweeted_status').
      →getItem('retweet_count')).\
                    withColumn('retweet', col('retweeted_status').
      select('user_id', 'user_name', 'user_location', user_location')
      'created_at', 'text' , 'retweet_count', u
      →'retweeted status','retweet','id','retweeted from')
[38]: k12_df
```

```
______
          user_id| user_name| user_location|
user_description|followers_count| created_at|
text|retweet_count| retweeted_status|retweet|
                                                   id
retweeted from
______
-----+
|1278113146784358400| brandonhbk_|
                                        null|
                                                        null
5|Sun Dec 18 00:56:...|@pulte $brandonhb...| null|
                                                       null
null|1604279508865007617|
                               null
         97213130 | ashleyeleigh |
                                       null|I'm just here so ...|
984|Sun Dec 18 01:00:...|RT @ShanaVWhite: ...|
                                        27|{null, Sat Dec
17... | false | 1604280408471904258 | ShanaVWhite |
                   nikicaga|Serbia, The 52nd ...|23, from , st...|
        892767878
10549|Sun Dec 18 01:02:...|@mxvnsn German K1...|
                                        null
null| null|1604280895170560002|
                                     null
ncsupers
04...| false|1610637266510037004| tsmarkley|
| 946895823350022144| levantophile|
                                       null|lebanese abroad. ...|
                                    null
1156|Wed Jan 04 14:04:...|@omar_ghxd Otherw...|
null| null|1610638241941852160|
                                     null
| 701136412700073984| fetting45|Colorado Springs, CO|Feminist, environ...|
4349|Fri Apr 29 14:22:...|RT @KyleClark: "F...|
                                          6|{null, Fri Apr
                                 KyleClark|
29... | false | 1520045897064714240 |
231|Fri Apr 29 14:23:...|It also allows th...|
                                    null
null | null | 1520046115877318656 |
                                     null
         66263683 | NJSchoolJobs | New Jersey, USA | The leading adver... |
4086|Thu Jul 21 14:04:...|Acting Executive ...| null|
     null|1550119464980492288|
                                      null
1461074752869646340
                                  Chicago, IL|Ed Tech Guy / Lov...|
                 MidCJB|
38|Thu Jul 21 14:05:...|TODAY'S THE DAY!
       nulll
                         null| null|1550119805495128069|EVERFIK12 for
... |
our...
|1515645342267899910| Iris4676|
                                       null
                                                        null
4|Thu Jul 21 14:06:...|RT @iKeepSafe: So...|
                                        4|{null, Wed Jul 20...|
false|1550119939335266304|
                             iKeepSafe|
|1493539642225868801| UniqueGav|
                                       null|
                                                        null
95|Thu Jul 21 14:07:...|@PushBack123 @Bob...|
                                       null|
                                                       null
null|1550120170659622915|Boblet3001 @PowWo...|
|1547201591840849923| TerryWitte5|St Charles , Illi...|
0|Thu Jul 21 14:07:...|RT @EducationFL: ...| 2|{null, Thu Jul 21...|
false|1550120269586448385|
                           EducationFL|
       2796070787| edCircuit| Planet Earth|Powering the Glob...|
7676|Thu Sep 29 19:21:...|Doug Thompson joi...|
                                        null
```

```
551970824
                            ElevateK12|
                                               Chicago, IL | Connecting teache... |
     448|Thu Sep 29 19:22:...|RT @akperera: The...|
                                                        3|{null, Thu Sep
     29...| false|1575566611745951747|
                                               akperera|
                2845793331
                              stick631|
                                             United States | VP of Intelligenc... |
     5988|Thu Sep 29 19:22:...|RT @K12ssdb: At 1...|
                                                         2|{null, Thu Sep
     29... | false | 1575566683796013056 |
                                               K12ssdb|
     |1424861815066947602|paulos4nevada|
                                         Las Vegas, Nevada|Husband, Father, ...|
     322|Thu Sep 29 19:22:...|RT @ValeriaGurr: ...|
                                                        2|{null, Thu Sep
     29...| false|1575566702091198464|
                                            ValeriaGurr|
                 9696142| techlearning|NY, CA and elsewhere|Since 1980, Tech ...|
     63187 Thu Aug 11 13:28:... CDC To Loosen Sch...
                                                       nulll
     nulll
             null | 1557720525539053568 |
                                                   nulll
               2999624400| kyle_stenson|
                                                 Utah, USA|Husband. Father o...|
     211 | Thu Aug 11 13:29:... | RT @edwebnet: 5 T... |
                                                        2|{null, Thu Aug
     11...| false|1557720959347351555|
                                               edwebnet |
     | 809566594900836352| K12Prospects|
                                                 Tampa, FL|K12Prospects help...|
     2292|Thu Aug 11 13:30:...|Are inactive K12 ...|
                                                      null
             null|1557721163341733889|
                                                   null
                327745220| DeuceThomas|
                                                        W|TheSitDown Show ?...|
                                                        12|{null, Thu Aug
     4455|Thu Aug 11 13:31:...|RT @CoachReedLive...|
     11...| false|1557721361551953920|
                                          CoachReedLive
     +-----
     ______
     ______
     only showing top 20 rows
[40]: k = k12 df.select('user id', 'user name', 'user description', 'id')
[41]: distinct_users = k.select('user_id').distinct()
     score = influence.select('user_id', 'user_name' , 'Max_reach', 'user_descrip', 
      [42]: k12_score = distinct_users.join(score, distinct_users.user_id == score.user_id,__
      →'inner').drop(score.user_id)
[45]: top50_influencer_k12 = k12_score.orderBy(col('inf_score').desc()).limit(50)
     top50_influencer_k12_df = top50_influencer_k12.toPandas()
     top50_influencer_k12_df
[46]:
                    user_id
                                  user_name Max_reach \
     0
                     759251
                                        CNN
                                              61179807
     1
                   29417304
                                      deray
                                               1023675
         1326229737551912960
                                libsoftiktok
                                               1893691
```

null

null

null | 1575566331751137280 |

2	E10/1E7/	A.D.	16070017
3	51241574	AP	16078817
4	95092020	jordanbpeterson	3768807
5	28785486	ABC	17804328
6	26548315	soledadobrien	1362825
7	1367531	FoxNews	23697482
8	738779772	LakotaMan1	442384
9	18266688	TomFitton	2055758
10	806906355214852096	RepRaskin	611043
11	5392522	NPR	9018858
12	2417586104	SebGorka	1253517
13	24165761	MichaelSkolnik	275298
14	812135885328236551	RealSaavedra	322211
15	48459553	KatiePavlich	944012
16	18831926	DrEricDing	729021
17	26520948	ARmastrangelo	230565
18	74286565	Microsoft	12250352
19	18005085	MZHemingway	944712
20	15012486	CBSNews	8894778
21	7702542	DLoesch	1211713
22	194984676	TakaTina1	595928
23	3066800573	realchrisrufo	490037
24	286998245		300076
		Phil_Lewis_	
25	246939630	shannonrwatts	601731
26	196168350	AnnCoulter	2113935
27	30900841	agentbizzle	144707
28	358545917	Cernovich	1107623
29	1344951	WIRED	10268400
30	15872418	ABSCBNNews	8895337
31	25598396	nhannahjones	694008
32	15907183	cmclymer	399568
33	25235151	RitaPanahi	349644
34	836953913207185413	MeliMels99	50428
35	188793260	ninaturner	591798
36	926164634570067968	MuellerSheWrote	504252
37	15207668	HouseGOP	1356394
38	16714347	jason_koebler	28862
39	601535938	RealMattCouch	575551
40	32201297	mirandadevine	348241
41	199399909	NicholasFerroni	129051
42	457984599	BreitbartNews	1885703
43	739844197935644672	AmoneyResists	190870
44	33773592	AstroKatie	426704
45	34713362	business	9160188
46	91478624	Forbes	18711065
47	4541535439	jennycohn1	238554
48	20545835	newsmax	2050260
49	754393222563102720	instablog9ja	1859826

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info@mskolnik.com
Senior Reporter at @realDailyWire. Retweets endorsement.
                                   Proud American Woman
                                                          Don't panic! Si se
pwodway! Retweets are probably endorsements. "The road to hell is paved with good
```

intentions."

```
Epidemiologist, health economist. Co-founder @TheWHN. Former 16 yrs
@Harvard. Alum @JohnsHopkins|@HarvardEPI. COVID updates since Jan
'20-http://nym.ag/3olszuo
                                                @BreitbartNews reporter /
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http://danaloesch.substack.com
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@Leratokganyago°@RealBlackCoffee°°@lamiezHolworthy Bookings
°Afritrendz.marketing@gmail.com WhtsAp0634521861 Wifey @__Sinombulelo
                                       Writer, filmmaker, activist. Manhattan
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           Founder of @MomsDemand, grassroots army of @Everytown / @AmericanU
Fellow / Author of Fight Like a Mother / Boards @WeAdvancePeace, @EmergeAmerica
/ #MizzouMade
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```

```
https://t.co/zZjhwNRmqL #BLM
                                               The truth is incontrovertible.
Malice may attack it, ignorance may deride it, but in the end, there it is.
Winston Churchill
                 Ranking member of the Radical Left. I loathe racism, bigots,
child abuse, elderly abuse, animal abuse. Women control their own bodies. I'm
writing a book!
35
                              Thought leader. Activist. Senior Fellow at
@RacePowerPolicy. Former Ohio State Senator & Professor. Host of Unbossed on
QTYT (Premiers 10/17)
36
http://post.news/muellershewrote Tweets by @allisongill.
http://muellershewrote.com She/her. BLM @dailybeanspod
37
We are the Republican Conference in the United States House of Representatives
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I love the internet : ( EIC @motherboard // jason@motherboard.tv Signal:
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        Christian-Father-Investigator-Political Analyst-Razorback -
https://t.co/LYhBXdIh63 - Truth Slinger - Si Vis Pacem, Para Bellum -
IG/GETTR/Gab/MeWe: @RealMattCouch
                                                     Journalist, wife, mother,
dog-lover. Truth-teller @nypost @dailytelegraph @foxnews Author of bestseller
#LaptopFromHell
                                            As a kid, I wanted to be a
superhero, psychologist, philanthropist, philosopher, actor and comedian... So I
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   1.715282e+09
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   7.457907e+08
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   5.355170e+08
36
   5.332885e+08
37 5.258287e+08
   4.972923e+08
38
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4.856499e+08 4.573565e+08

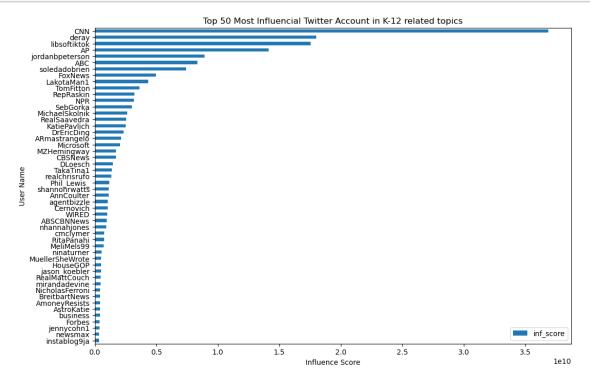
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41 4.488014e+08
42 4.444900e+08
43 4.401343e+08
44 4.159511e+08
45 4.101869e+08
46 3.933369e+08
47 3.866824e+08
48 3.457673e+08
49 3.427152e+08
```

```
[47]: ax = top50_influencer_k12_df.plot(x='user_name', y= 'inf_score', kind='barh', □

→figsize = (12, 8))

ax.set_ylabel('User Name')
ax.set_xlabel('Influence Score')
ax.set_title('Top 50 Most Influencial Twitter Account in K-12 related topics')
ax.invert_yaxis()

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



## []: #original

### [50]: top50\_ori\_influencer\_k12\_df

```
[50]:
                       user_id
                                        user_name
                                                    Max_reach
      0
                                                     61179807
                        759251
                                              CNN
      1
          1326229737551912960
                                    libsoftiktok
                                                      1893691
      2
                      51241574
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                                                     16078817
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                      28785486
                                              ABC
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                                                     23697482
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                       1367531
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                     738779772
                                       LakotaMan1
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      6
                      18266688
                                        TomFitton
                                                      2055758
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           806906355214852096
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                                                       611043
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                                              NPR.
                                                      9018858
      9
           812135885328236551
                                    RealSaavedra
                                                       322211
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                      48459553
                                    KatiePavlich
                                                       944012
      11
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                                   ARmastrangelo
                                                       230565
      12
                                        Microsoft
                      74286565
                                                     12250352
      13
                       7702542
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                                                      1211713
      14
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                     194984676
                                                       595928
      15
                    3066800573
                                   realchrisrufo
                                                       490037
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                                                       300076
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                                    shannonrwatts
                                                       601731
      18
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      19
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                                            WIRED
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      20
                                    nhannahjones
                      25598396
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                     188793260
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                                                       591798
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           926164634570067968
                                 MuellerSheWrote
                                                       504252
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                                   jason_koebler
                      16714347
                                                        28862
      25
                                   RealMattCouch
                     601535938
                                                       575551
      26
                     457984599
                                   BreitbartNews
                                                      1885703
      27
                                   AmoneyResists
           739844197935644672
                                                       190870
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                      33773592
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                                                       426704
      29
                                         business
                      34713362
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      30
                      91478624
                                           Forbes
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      31
                      20545835
                                          newsmax
                                                      2050260
      32
           754393222563102720
                                    instablog9ja
                                                      1859826
```

33	15754281	USATODAY	4937290
34	42958829	CBSEveningNews	400081
35	33276161	JohnFugelsang	497571
36	800707492346925056	axios	654241
37	1917731	thehill	4477859
38	21035409	michaelianblack	1863694
39	21728303	keithboykin	257347
40	962650783182331904	${\tt SydneyLWatson}$	370782
41	1683622159	kdnerak33	55568
42	511402689	WorldAndScience	2409070
43	6473022	ChrChristensen	35054
44	1332809596885405702	piper4missouri	81086
45	16664681	latimes	4022357
46	39453212	gmanews	6475965
47	31667539	ChristinaPushaw	271384
48	116579971	GadSaad	629192
49	1417895107915702272	Barbara4NC	56171

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                                                          Don't panic! Si se
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°Afritrendz.marketing@gmail.com WhtsAp0634521861 Wifey @ Sinombulelo
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cast:http://apple.co/38mTKuO
                                                           Smart Brevity worthy
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YouTube sensation
Author • Race Against Time: The Politics of a Darkening America
Very important doctor. Claiming to be American-Australian.
                   Teacher, mother, firefighter wife. My dogs follow me
everywhere. Scatter kindness & listen to Pearl Jam. Nerds are cool. M.Ed.
Opinions my own. #science
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science (with some side tracking) - As an Amazon Associate we earn from

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42

qualifying purchases

43 American. Professor at Stockholm University.

Ph.D. University of Texas at Austin. Write stuff about journalism, politics, culture. 49ers.

44 Teacher,

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

45

News from a West Coast perspective.

46

Welcome to the official Twitter account of GMA News in the Philippines.

here to debunk false Narratives about Florida & @GovRonDeSantis • John 15:18 • personal views my own; likes =  $\$  endorsements

Professor, Evolutionary Behavioral Scientist, Author. Opinions are mine alone. Retweets do not necessarily imply an endorsement.

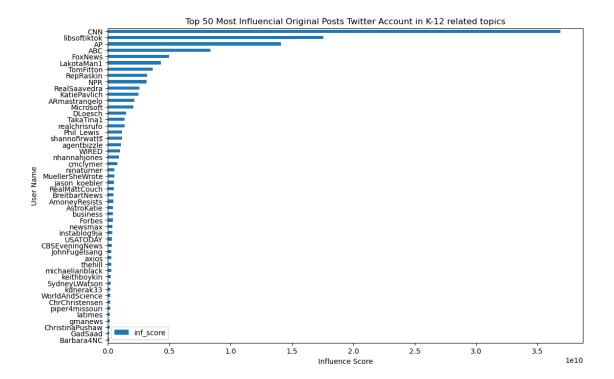
49 Proud Mom furious with Republican Greg Murphy for selling out NC to MAGA. I know we can beat him. But I need your help:

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### inf\_score

- 0 3.687826e+10
- 1 1.755550e+10
- 2 1.412216e+10
- 3 8.343108e+09
- 4 4.977012e+09
- 5 4.327474e+09
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- 9 2.553039e+09
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- 11 2.142641e+09
- 12 2.058059e+09
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26 4.444900e+08
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     42 2.051151e+08
     43 1.806794e+08
     44 1.788294e+08
     45 1.719928e+08
     46 1.714270e+08
     47 1.365487e+08
     48 1.276292e+08
     49 1.238360e+08
[54]: | ax = top50_ori_influencer_k12_df.plot(x='user_name', y= 'inf_score', user_name')
      →kind='barh', figsize = (12, 8))
     ax.set_ylabel('User Name')
     ax.set_xlabel('Influence Score')
     ax.set_title('Top 50 Most Influencial Original Posts Twitter Account in K-12 U
     ax.invert_yaxis()
     # show the plot
     plt.show()
```



# []: # Retweet

# [53]: top50\_rt\_influencer\_k12\_df

```
[53]:
                       user_id
                                       user_name
                                                   Max_reach
      0
                      29417304
                                                     1023675
                                           deray
          1326229737551912960
                                    libsoftiktok
      1
                                                     1893691
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                                 jordanbpeterson
                                                     3768807
      3
                                   soledadobrien
                      26548315
                                                     1362825
      4
                    2417586104
                                        SebGorka
                                                     1253517
                                  MichaelSkolnik
      5
                      24165761
                                                      275298
      6
                                      DrEricDing
                                                      729021
                      18831926
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                      18005085
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                                                      944712
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                                                 238554
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O I will never betray my heart. Activist. Organizer. Educator || @PodSaveThePpl || Author || IG: iamderay || deray@campaignzero.org || (410) 204-2013 (text me)

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info@mskolnik.com
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'20-http://nym.ag/3olszuo
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11
Author. NEW SUBSTACK: http://anncoulter.substack.com
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Current Affairs
                                           The truth is incontrovertible. Malice
may attack it, ignorance may deride it, but in the end, there it is. Winston
             Ranking member of the Radical Left. I loathe racism, bigots, child
abuse, elderly abuse, animal abuse. Women control their own bodies. I'm writing
a book!
16
We are the Republican Conference in the United States House of Representatives
17 Christian-Father-Investigator-Political Analyst-Razorback -
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https://t.co/LYhBXdIh63 - Truth Slinger - Si Vis Pacem, Para Bellum -

IG/GETTR/Gab/MeWe: @RealMattCouch

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Journalist, wife, mother, dog-
lover. Truth-teller @nypost @dailytelegraph @foxnews Author of bestseller
#LaptopFromHell
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As a kid, I wanted to be a superhero, psychologist, philanthropist, philosopher, actor and comedian... So I became a teacher.

20 Host of @AmericaRisesUp. Gay AF. Dems are pro-America. @GOP is anti-women, anti-truth, and anti-democracy. We will win. #BlackLivesMatter #IStandWithUkraine

I write about elections and the Christian Right for @buckscobeacon; Mastodon = jennycohn@toad.social; Support my work: http://ko-fi.com/jennycohn1

 $\hbox{ Executive Director @DemCastUSA } \\ \hbox{Writing: @HuffPost @PatNotPart. Democracy is neat. We have a lot of work to do.} \\ \hbox{\#DemCast}$ 

23

CEO and Co-Founder of @FDRLST

America's Lawyer. Contributor @newsmax. THE JENNA ELLIS SHOW. Special Counsel @ThomasMoreSoc. Fmr Senior Legal Adviser & Counsel @POTUS45. Inquiries: @MicahBock

25

DV. . I actually don't gaf.

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27

Editor-in-Chief of The National Pulse. Writer of irate Substack. Unlikely peace advocate.

28 Historian. Author. Professor. Budding Curmudgeon. I study the contrast between image and reality in America, especially in politics.

29 Best selling author endorsed by President Trump. President of @1FLAGUSA. Presidential Appointee. Australian by birth; American by choice. @A1Policy Ambassador.

30 Used To Direct Stars, Now I Fight For Freedom • Cuban American • Director/Producer • Free Thinker • Proud Dad • @LandonStarbuck •

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32 Potty Mouthed Anti-Racist/ Anti Child Trafficking Advocate/ Nonprofit/ Lefty/ #BlackLivesMatter/ Proud Ally / True Crime Addict/ Dallas Cowboys

I am not what you think I am. You are what you think I am. https://masto.ai/@Out5pOken https://out5pOken.creatorspring.com/

34 DM me for promos! + @hubsol2\nAlpha Discord locked at 1000 members. \nDm -

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35 Teacher, mother, firefighter wife. My dogs follow me everywhere. Scatter kindness & listen to Pearl Jam. Nerds are cool. M.Ed. Opinions my own. #science

36 http://Code.org is a nonprofit dedicated to giving every student in every school the opportunity to learn computer science. Anybody can learn!

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http://herotozerodoc.com

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Host, The CJ Pearson Show | The University of Alabama | Republican Strategist
40 CA Senator

28th District. USNavy Veteran, Mom of 5, small biz owner, Wife and Mom to Sailors, #2A

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A point of view

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News from a West Coast perspective.

43

Michigan State Senator | @NotreDame | @raywert's ginger half | Noa's mom

44 Proud supporter of the Republican Party (@GOP)! Not authorized by any candidate or candidate committee. Retweets are not an endorsement. #MAGA

#TFBAP

Foul-mouthed feminist, anti-racism & human rights advocate, empath, INFJ. Opinions = my own. Click bio link to filter to my tweets. Same @ on Post. #RESIST

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48 here to debunk false Narratives about

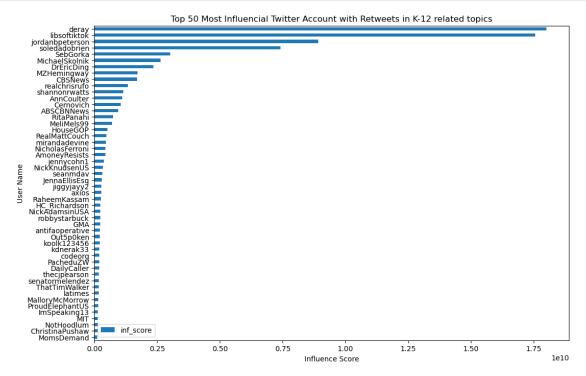
Florida & @GovRonDeSantis • John 15:18 • personal views my own; likes =\= endorsements

Join our grassroots movement of Americans demanding reasonable solutions to address our nation's culture of gun violence. @MomsDemand is a part of @Everytown.

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