

Week 05: Heroku Deployment

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Data Glacier

LISUM15: 30 OCT 2022 – 30 JAN 2023

Submission Date

December 5th, 2022

Flask

December 4, 2022

```
[1]: # pip install flask
```

```
[2]: # importing required libraries
import pandas as pd
from sklearn.feature_extraction.text import ENGLISH_STOP_WORDS, TfidfVectorizer
from sklearn.linear_model import LogisticRegression
from sklearn.pipeline import Pipeline
from sklearn.metrics import f1_score
from sklearn.model_selection import train_test_split
```

```
[3]: # read the dataset
data = pd.read_csv('twitter_sentiments.csv')
# view the top rows
data.head()
```

```
[3]:
```

	id	label	tweet
0	1	0	@user when a father is dysfunctional and is s...
1	2	0	@user @user thanks for #lyft credit i can't us...
2	3	0	bihday your majesty
3	4	0	#model i love u take with u all the time in ...
4	5	0	factsguide: society now #motivation

```
[4]: # train test split
train, test = train_test_split(data, test_size = 0.2, stratify = data['label'],
    ↪random_state=21)

# get the shape of train and test split.
train.shape, test.shape
## >> ((25569, 3), (6393, 3))
```

```
[4]: ((25569, 3), (6393, 3))
```

```
[5]: # create a TF-IDF vectorizer object
tfidf_vectorizer = TfidfVectorizer(lowercase= True, max_features=1000,
    ↪stop_words=ENGLISH_STOP_WORDS)

# fit the object with the training data tweets
```

```
tfidf_vectorizer.fit(train.tweet)
```

```
[5]: TfidfVectorizer(max_features=1000,
                    stop_words=frozenset({'a', 'about', 'above', 'across', 'after',
                                         'afterwards', 'again', 'against', 'all',
                                         'almost', 'alone', 'along', 'already',
                                         'also', 'although', 'always', 'am',
                                         'among', 'amongst', 'amoungst', 'amount',
                                         'an', 'and', 'another', 'any', 'anyhow',
                                         'anyone', 'anything', 'anyway',
                                         'anywhere', ...}))
```

```
[6]: # transform the train and test data
train_idf = tfidf_vectorizer.transform(train.tweet)
test_idf  = tfidf_vectorizer.transform(test.tweet)
```

```
[7]: # create the object of LinearRegression Model
model_LR = LogisticRegression()

# fit the model with the training data
model_LR.fit(train_idf, train.label)

# predict the label on the training data
predict_train = model_LR.predict(train_idf)

# predict the model on the test data
predict_test = model_LR.predict(test_idf)

# f1 score on train data
f1_score(y_true= train.label, y_pred= predict_train)
## >> 0.4888178913738019

f1_score(y_true= test.label, y_pred= predict_test)
## >> 0.45751633986928114
```

```
[7]: 0.45751633986928114
```

```
[8]: # define the stages of the pipeline
pipeline = Pipeline(steps= [('tfidf', TfidfVectorizer(lowercase=True,
                                                       max_features=1000,
                                                       stop_words=ENGLISH_STOP_WORDS)),
                             ('model', LogisticRegression())])

# fit the pipeline model with the training data
pipeline.fit(train.tweet, train.label)
```

```
[8]: Pipeline(steps=[('tfidf',
                      TfIdfVectorizer(max_features=1000,
                                      stop_words=frozenset({'a', 'about', 'above',
                                                            'across', 'after',
                                                            'afterwards', 'again',
                                                            'against', 'all',
                                                            'almost', 'alone',
                                                            'along', 'already',
                                                            'also', 'although',
                                                            'always', 'am', 'among',
                                                            'amongst', 'amoungst',
                                                            'amount', 'an', 'and',
                                                            'another', 'any',
                                                            'anyhow', 'anyone',
                                                            'anything', 'anyway',
                                                            'anywhere', ...}))),
                    ('model', LogisticRegression())])
```

```
[9]: # sample tweet
text = ["Virat Kohli, AB de Villiers set to auction their 'Green Day' kits from_
↪2016 IPL match to raise funds"]

# predict the label using the pipeline
pipeline.predict(text)
## >> array([0])
```

```
[9]: array([0], dtype=int64)
```

```
[10]: # import joblib
from joblib import dump
```

```
[11]: # dump the pipeline model
dump(pipeline, filename="text_classification.joblib")
```

```
[11]: ['text_classification.joblib']
```

```
[12]: # import joblib
from joblib import load

# sample tweet text
text = ["Virat Kohli, AB de Villiers set to auction their 'Green Day' kits from_
↪2016 IPL match to raise funds"]

# load the saved pipeline model
pipeline = load("text_classification.joblib")

# predict on the sample tweet text
```

```
pipeline.predict(text)
## >> array([0])
```

```
[12]: array([0], dtype=int64)
```

```
[13]: # !pip3 install tweepy
```

```
[14]: # import required libraries
import tweepy
import time
import pandas as pd
pd.set_option('display.max_colwidth', 1000)

# api key
api_key = '████████████████████████████████████████'
# api secret key
api_secret_key = '████████████████████████████████████████████████████████████████████████████████'
# access token
access_token = '████████████████████████████████████████████████████████████████████████████████'
# access token secret
access_token_secret = '████████████████████████████████████████████████████████████████████████████████'

# authorize the API Key
authentication = tweepy.OAuthHandler(api_key, api_secret_key)

# authorization to user's access token and access token secret
authentication.set_access_token(access_token, access_token_secret)

# call the api
api = tweepy.API(authentication, wait_on_rate_limit=True)
```

```
[15]: def get_related_tweets(text_query):
    # list to store tweets
    tweets_list = []
    # no of tweets
    count = 50
    try:
        # Pulling individual tweets from query
        for tweet in api.search_tweets(q=text_query, count=count):
            print(tweet.text)
            # Adding to list that contains all tweets
            tweets_list.append({'created_at': tweet.created_at,
                                'tweet_id': tweet.id,
                                'tweet_text': tweet.text})
        return pd.DataFrame.from_dict(tweets_list)

    except BaseException as e:
```

```
print('failed on_status,', str(e))
time.sleep(3)
```

```
[16]: from get_tweets import get_related_tweets
```

```
[17]: # importing the required libraries
from flask import Flask, render_template, request, redirect, url_for
from joblib import load

# load the pipeline object
pipeline = load("text_classification.joblib")

# function to get results for a particular text query
def requestResults(name):
    # get the tweets text
    tweets = get_related_tweets(name)
    # get the prediction
    tweets['prediction'] = pipeline.predict(tweets['tweet_text'])
    # get the value counts of different labels predicted
    data = str(tweets.prediction.value_counts()) + '\n\n'
    return data + str(tweets)
```

```
[18]: # start flask
app = Flask(__name__)

# render default webpage
@app.route('/')
def home():
    return render_template('home.html')

# when the post method detect, then redirect to success function
@app.route('/', methods=['POST', 'GET'])
def get_data():
    if request.method == 'POST':
        user = request.form['search']
        return redirect(url_for('success', name=user))

# get the data for the requested query
@app.route('/success/<name>')
def success(name):
    return "<xmp>" + str(requestResults(name)) + " </xmp> "
```

```
[ ]: app.run(debug=False)
```

```
* Serving Flask app '__main__' (lazy loading)
* Environment: production
```

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

127.0.0.1 - - [04/Dec/2022 22:34:25] "GET / HTTP/1.1" 200 -

127.0.0.1 - - [04/Dec/2022 22:34:40] "POST / HTTP/1.1" 302 -

127.0.0.1 - - [04/Dec/2022 22:34:42] "GET /success/Elon%20Musk HTTP/1.1" 200 -

RT @jamisonfoser: It has been 22 hours since Matt Taibbi posted the personal email address of a member of congress in a thread promoted by...

RT @vanessavallej0: "¡Si cometo suicidio no es real!"

Elon Musk acaba de decir esto en un Space en Twitter. Parece que el nuevo dueño de l...

@IanJaegerNPC Elon Musk's "big scoop": Basically the Biden campaign team (not the Government) asked Twitter (a priv... <https://t.co/7zjdII4Hc9>

RT @lordivan22: Brasil : A mídia internacional repercute a declaração feita por Elon Musk, de que funcionários do Twitter no Brasil, pod...

RT @lordivan22: Brasil : A mídia internacional repercute a declaração feita por Elon Musk, de que funcionários do Twitter no Brasil, pod...

RT @CNN: Two watchdog groups have published research that indicates Elon Musk's claim that hate speech dramatically decreased on Twitter si...

RT @rmotta2: Conforme prometido, segue a primeira parte dos "Arquivos do Twitter", cuja publicação foi determinada por Elon Musk, e que voc...

Elon Musk's Company Seeks Permission To Test Brain Implants In People - HuffPost <https://t.co/UGxAQ6urck> #Forumidex #Trending #HotTopics

RT @f_philippot: Les révélations explosives d'Elon Musk ne font pas la une ! On comprend pourquoi !

Sur la censure, Hunter Biden, les élec...

RT @JonathanTurley: "Handled." That one word, responding to a 2020 demand to censor a list of Twitter users, speaks volumes about the thous...

RT @OccupyDemocrats: When progressive outlets are comparing @elonmusk to FOX News' host Tucker Carlson, you know that he has hit rock botto...

RT @f_philippot: Étonnamment la presse ne parle quasiment pas des révélations explosives d'Elon Musk sur Twitter et l'affaire Hunter Biden...

@BB_00001000 @biz @goldman seems like more than Elon <https://t.co/PyzBHsjFoQ>

RT @OzraeliAvi: #BREAKING: Elon Musk confirms he is NOT suicidal in case they Epstein him.

RT @theRealKiyosaki: Why Silicon Valley's WOKE fear MUSK: Musk is an entrepreneur. He does not need a job or money. He beat BIG BANKS with...

RT @PoPrawniki2: Elon Musk przejmując Twittera zapowiedział, że chce go uczynić "centrum wolności słowa". To zwykły bullshit, bo zapomniał d...

RT @f_philippot: Les révélations explosives d'Elon Musk ne font pas la une ! On comprend pourquoi !

Sur la censure, Hunter Biden, les élec...

RT @PrisonPlanet: Elon Musk: "The risk of something happening to me is quite significant."

<https://t.co/Rl6K00bIrV>

RT @theRealKiyosaki: Why Silicon Valley's WOKE fear MUSK: Musk is an entrepreneur. He does not need a job or money. He beat BIG BANKS with...

RT @JonathanTurley: "Handled." That one word, responding to a 2020 demand to censor a list of Twitter users, speaks volumes about the thous...

RT @PrisonPlanet: Elon Musk: "The risk of something happening to me is quite significant."

<https://t.co/Rl6K00bIrV>

RT @Markus_Krall: Wer ein Unternehmen zum nachhaltigen Erfolg führen will, muss denken und fühlen wie seine Kunden, nicht wie die veröffentl...

RT @nikitheblogger: Die EU droht Elon Musk also ernsthaft damit Twitter zu verbannen, wenn gewisse Zwänge und Einschränkungen der Meinungs...

RT @JuanitoSay: ¿Se acuerdan que en 2020 salio una informacion sobre una supuesta computadora de Hunter Biden, hijo de Elon Musk y todos lo...

RT @ericareport: BREAKING: Elon Musk, the richest man in the world, disrespectfully called Senator Warren "Senator Karen" and said she remi...

RT @DashDobrofsky: Elon Musk spoke with Putin. Then, he bought Twitter. Then, he endorsed the Republicans who promised to cut off funding t...

RT @TravisAllen02: BREAKING: Elon Musk just accidentally revealed that the Trump White House was using Twitter to censor his critics in vio...

RT @ArchbpVigano: ..this historical moment sees the forces of Evil aligned in a battle without quarter against the forces of Good; forces o...

RT @tiefenschaerfer: Dieser Thread gewinnt übrigens deutlich, sobald man checkt, dass hier die erste Ehefrau von Elon Musk spricht: [http...](http://t.co/kNSYZuQQwX)

Elon Musk Suspects Former FTX CEO Sam Bankman-Fried Donated Over \$1 Billion to Support Democrats - Bitcoin News - B... <https://t.co/kNSYZuQQwX>

RT @alx: Elon Musk says there are 'more smoking guns' to come and he's not suicidal, and reveals he will release ALL of the Twitter Files i...

RT @ACTBrigitte: Why isn't the mainstream media talking about Elon Musk's Twitter files dump?

RT @ArchbpVigano: ..this historical moment sees the forces of Evil aligned in a battle without quarter against the forces of Good; forces o...

RT @HukAleksandra: Elon Musk could retire and ride off into the sunset, yet he chose to fight corruption. It's incredible really.

RT @MattWallace888: Elon Musk is going to put the mainstream media out of business!

RT @Liberfach0: Aquí les dejo el hilo realizado con mayor detalle sobre la información que Elon Musk y su equipo acaban de exponer, espero...

RT @rmotta2: Conforme prometido, segue a primeira parte dos "Arquivos do Twitter", cuja publicação foi determinada por Elon Musk, e que voc...

RT @OsmarTerra: Novo dono do Twitter, Elon Musk suspeita que rede social tenha beneficiado esquerda nas eleições brasileiras - Conexão Polí...

RT @MariaFdaCabal: Las Big Tech son cómplices de la destrucción de las democracias. <https://t.co/I46pfPfiXH>

RT @ChuckCallesto: BREAKING NOW: Elon Musk Suggests Labeling Certain CORPORATE MEDIA OUTLETS as State Sponsored Media..

RT @JuanitoSay: ¿Se acuerdan que en 2020 salio una informacion sobre una supuesta computadora de Hunter Biden, hijo de Elon Musk y todos lo...

RT @catturd2: What Elon Musk revealed yesterday is the Biden regime is the most corrupt pResidency in U.S. history.

These are all slimy,...

RT @gaceta_es: Elon Musk afirma que la anterior dirección de Twitter pudo interferir a favor de Lula da Silva en las pasadas elecciones de...

RT @NonaConta_: Elon Musk, está moderando pessoalmente os tuites a respeito das eleições brasileiras. Na manhã deste sábado (3), o bilionár...

RT @TerraBrasilnot: Repórter escolhido por Elon Musk para expor relatório do Twitter é fortemente atacado por jornalistas de esquerda https...

RT @JuanitoSay: ¿Se acuerdan que en 2020 salio una informacion sobre una supuesta computadora de Hunter Biden, hijo de Elon Musk y todos lo...

RT @Liberfach0: Elon Musk acaba de liberar los archivos secretos de la anterior gestión de twitter, en este corto hilo, explico lo turbio q...

RT @JonathanTurley: "Handled." That one word, responding to a 2020 demand to censor a list of Twitter users, speaks volumes about the thous...

RT @MayoIsSpicyy: Elon Musk is actively working against the United States. He has no loyalty to America. Who is pulling his strings?

RT @abc_es: Elon Musk amenaza con destapar más escándalos encubiertos por Twitter tras revelar la protección a Hunter Biden, el polémico hi...

127.0.0.1 - - [04/Dec/2022 22:34:42] "GET /favicon.ico HTTP/1.1" 404 -




 >  dataglacier-heroku-app



Open app

More

 DataDaimon/twitter-sentiment



Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features



Pipelines let you connect multiple apps together and **promote code** between them. [Learn more.](#)



Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. [Learn more.](#)


 Choose a pipeline

Deployment method



Heroku Git
Use Heroku CLI



GitHub
Connected 



Container Registry
Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to  [DataDaimon/twitter-sentiment](#) by  [DataDaimon](#)

Disconnect...



Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

 You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions [here](#).

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch is always in a deployable state and any tests have passed before you push. [Learn more](#).

Choose a branch to deploy

 main

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Enable Automatic Deploys

Manual deploy

Deploy the current state of a branch to this app.





Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

 main

Deploy Branch

Receive code from GitHub	
Build main d81027f5	
Release phase	
Deploy to Heroku	

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Heroku Sentiment Analysis

0 49
1 1
Name: prediction, dtype: int64

	created_at	tweet_id
0	2022-12-04 13:41:24+00:00	1599398468287463425
1	2022-12-04 13:41:24+00:00	1599398466048118784
2	2022-12-04 13:41:24+00:00	1599398465896779776
3	2022-12-04 13:41:24+00:00	1599398465674829824
4	2022-12-04 13:41:24+00:00	1599398464978227201
5	2022-12-04 13:41:23+00:00	1599398464428933120
6	2022-12-04 13:41:23+00:00	1599398463904808960
7	2022-12-04 13:41:23+00:00	1599398462990479360
8	2022-12-04 13:41:23+00:00	1599398462369325056
9	2022-12-04 13:41:23+00:00	1599398461572464640
10	2022-12-04 13:41:23+00:00	1599398460683620352
11	2022-12-04 13:41:22+00:00	1599398460192882688
12	2022-12-04 13:41:22+00:00	1599398459999559680
13	2022-12-04 13:41:22+00:00	1599398458883858433
14	2022-12-04 13:41:22+00:00	1599398457684656128
15	2022-12-04 13:41:22+00:00	1599398457004867586
16	2022-12-04 13:41:21+00:00	1599398455901683712
17	2022-12-04 13:41:21+00:00	1599398455884976128
18	2022-12-04 13:41:21+00:00	1599398454735740928
19	2022-12-04 13:41:21+00:00	1599398452198531073
20	2022-12-04 13:41:20+00:00	1599398450356924416
21	2022-12-04 13:41:20+00:00	1599398450289729536
22	2022-12-04 13:41:20+00:00	1599398449614622721
23	2022-12-04 13:41:20+00:00	1599398449429946370
24	2022-12-04 13:41:20+00:00	1599398449270915073
25	2022-12-04 13:41:20+00:00	1599398448352354310
26	2022-12-04 13:41:19+00:00	1599398446703599618
27	2022-12-04 13:41:19+00:00	1599398446544392194
28	2022-12-04 13:41:19+00:00	1599398444623605760
29	2022-12-04 13:41:19+00:00	1599398444195786754
30	2022-12-04 13:41:18+00:00	1599398442693820416
31	2022-12-04 13:41:18+00:00	1599398442501304320
32	2022-12-04 13:41:18+00:00	1599398441615953921
33	2022-12-04 13:41:18+00:00	1599398440957800448
34	2022-12-04 13:41:18+00:00	1599398440655794178
35	2022-12-04 13:41:18+00:00	1599398440139517952
36	2022-12-04 13:41:18+00:00	1599398439883665409
37	2022-12-04 13:41:18+00:00	1599398439489372160
38	2022-12-04 13:41:17+00:00	1599398437711073280
39	2022-12-04 13:41:17+00:00	1599398437656481793
40	2022-12-04 13:41:17+00:00	1599398437199351809
41	2022-12-04 13:41:17+00:00	1599398435521585153
42	2022-12-04 13:41:16+00:00	1599398434519207936
43	2022-12-04 13:41:16+00:00	1599398433529286656
44	2022-12-04 13:41:16+00:00	1599398433369911296
45	2022-12-04 13:41:16+00:00	1599398433021829120
46	2022-12-04 13:41:16+00:00	1599398432585965569
47	2022-12-04 13:41:15+00:00	1599398430358802432
48	2022-12-04 13:41:15+00:00	1599398430073188352
49	2022-12-04 13:41:15+00:00	1599398428995649536

	tweet_text
0	RT @lordivan22: Brasil BR: A mídia internacional repercute a declaração feita por Elon Musk, de que funcionários do Twitter no Brasil, pod...
1	RT @OzraeliAvi: #BREAKING: Elon Musk confirms he is NOT suicidal in case they Epstein him.
2	RT @JayneZirkle: Brazilian Leftist Censorship Exposed: Jayne Zirkle Explains Concerning Revelations From Elon Musk On The United States' Br...
3	RT @Mirandadevine: Column's up: What's missing from Elon Musk's #TwitterFiles: the truth about the FBI https://t.co/AtkUCgOatN
4	Elon Musk blasted the New York Times Saturday for its refusal to cover the ongoing firestorm over political censors... https://t.co/mB8XmRadiR
5	Elon Musk geldi, onlar gitti: Twitter'ı terk eden ünlüler https://t.co/BwoSBVWEsy https://t.co/h4KpGxapb7
6	RT @Reuters: ICYMI: Twitter CEO Elon Musk said the social media platform saw 'all-time high' new user signups in the seven days to November...
7	RT @davidmweissman: I know I have asked Elon Musk a couple of times to do his job enforcing Twitter standards by suspending this account. N...
8	RT @GeorgeTakei: Overheard: No one ever tells Elon Musk to go back to Africa.
9	Elon Musk has unleashed the Putin bott farms and nasty old trumppers on America. The average IQ of twitter users ha... https://t.co/dCIgjRaSKI
10	RT @MikeSington: Elon Musk's much hyped "Twitter Files" exposé lands with a dud. CBS News, ABC News, The Washington Post, and The New York...
11	RT @lordivan22: Brasil BR: A mídia internacional repercute a declaração feita por Elon Musk, de que funcionários do Twitter no Brasil, pod...
12	RT @EvasTeslaSpLaid: Who thinks Twitter is more fun now than before Elon Musk's ownership? @elonmusk
13	RT @AmericanoMedia: 🚩 #Ahora: \n\n "¿Si me suicido no es real!"\n\nAcaba de afirmar Elon Musk en un Space de Twitter donde conversa sobre todas l...
14	RT @DailyCaller: Elon Musk has done more for free speech than any politician recently https://t.co/x9kQCL5zED
15	@MikeSington Did Elon Musk also want to punch Pres Macron when he sported a swastika - tilted just like the Nazi.?.. https://t.co/KBPXr1IVEG
16	RT @VoiceOfReality: Elon Musk owning twitter is why the other half of the country knows about #HunterBidensLaptop https://t.co/Tk6R7BV8Op
17	RT @TravisAllen02: BREAKING: Elon Musk just accidentally revealed that the Trump White House was using Twitter to censor his critics in vio...
18	RT @andst7: IX. If Twitter is now fighting vigorously against child sexual exploitation content, it's thanks to one person that set it as t...
19	RT @elizabethleu: Elon Musk has owned Twitter for a little over a month and there has been more progress made around the issue of child sexual...
20	RT @joncoopertweets: I predicted that Elon Musk's heavily hyped "Twitter Files" exposé would be a big, boring nothing-burger. Now that it's...
21	RT @DeanObeidallah: Elon Musk released "files" about Hunter Biden is to distract from Musk on Friday reinstating a Nazi on Twitter and the...
22	« A ce prix là, invitez plus de monde ». C'est le nouveau film de Jésus & Gabriel pour https://t.co/RhWghd3r1q, en... https://t.co/1IzfE1wiw3
23	RT @AhmedBaba_: So Elon Musk coordinated a leak attempting to accuse the Biden Admin of pressuring Twitter content moderation.\n\nWhat he end...
24	RT @F_Desouche: #TwitterFiles : Elon Musk fait publier des communications internes accablantes sur la censure politique, notamment l'affair...
25	RT @riktroiani: Elon #Musk revela come #Twitter oscuro il caso di #Biden jr. L'operazione potrebbe essere stata fatta su richiesta del team...
26	RT @ViliMiGu_Tex: 🚩🚩🚩🚩\nVeja pública matéria sobre favorecimento do Twitter para esquerda nas eleições do Brasil.\nhttps://t.co/0cpa5wMMD3 htt...
27	Elon Musk Set to Drop New Batch of #TwitterFiles ... On Hunter Biden Laptop #TMZ https://t.co/qwlPie9Q4o
28	RT @joncoopertweets: I predicted that Elon Musk's heavily hyped "Twitter Files" exposé would be a big, boring nothing-burger. Now that it's...
29	RT @PamKeithFL: Dear Twitter advertisers: \n\nI want you to understand that if I see your ad on this platform, you aren't selling me a produc...
30	RT @OzraeliAvi: The mainstream media is officially LOSING its war on Elon Musk.
31	Fuck Elon Musk
32	@SarahSchaub15 @elonmusk Elon Musk is a sad, insecure, lonely little man who needs more help than you or I could ev... https://t.co/tm1C22z0sw
33	RT @AmericanoMedia: 🚩 #Ahora: \n\n "¿Si me suicido no es real!"\n\nAcaba de afirmar Elon Musk en un Space de Twitter donde conversa sobre todas l...
34	RT @ThisIsKyleR: "If you do right by the people, then you generally have the people on your side." \n\nElon Musk \n\n🚩
35	RT @theRealKiyosaki: Why Silicon Valley's Woke fear MUSK: Musk is an entrepreneur. He does not need a job or money. He beat BIG BANKS with...
36	RT @DiretoDaAmerica: :: Elon Musk planeja rotular perfis de todas empresas de mídia ocidentais que recebam recursos governamentais como "st...
37	RT @OzraeliAvi: The mainstream media is officially LOSING its war on Elon Musk.
38	RT @JonathanTurley: "Handled." That one word, responding to a 2020 demand to censor a list of Twitter users, speaks volumes about the thous...

39 RT @SigaGazetaBR: Jornalistas de esquerda atacam repórter escolhido por Elon Musk para expor os arquivos do Twitter <https://t.co/McTluqGbpA>
40 RT @thebradfordfile: We now know why the regime was freaking out about Elon Musk buying twitter. They're criminals.
41 RT @MikeSington: Elon Musk's much hyped "Twitter Files" exposé lands with a dud. CBS News, ABC News, The Washington Post, and The New York...
42 RT @neto_kakau: Matt Taibbi, jornalista escolhido por Elon Musk, para divulgar o relatório do twitter sobre possível fraude nas eleições br...
43 RT @AltcoinDailyio: "PayPal has strayed very far from the path. I do think there is a role for #crypto in the future as a means of ensuring...
44 RT @duty2warn: According to our poll, Vox Populi believe Elon Musk is an enemy of America and the Constitution. <https://t.co/aXzwEXplFn>
45 @DLF38240585 @BuckSexton That's because it was just exposed by Elon Musk...oops
46 RT @joncoopertweets: I predicted that Elon Musk's heavily hyped "Twitter Files" exposé would be a big, boring nothing-burger. Now that it's...
47 RT @JuanitoSay: ¿Se acuerdan que en 2020 salio una informacion sobre una supuesta computadora de Hunter Biden, hijo de Elon Musk y todos lo...
48 RT @TheDailyShow: Elon Musk is rich in America, just give him what he wants. Stop oppressing him! @ronnychieng <https://t.co/TAF5PQG0vz>
49 RT @MariaFdaCabal: Las Big Tech son cómplices de la destrucción de las democracias. <https://t.co/I46pfPfiXH>

prediction
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