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import pandas as pd
import numpy as nm
from sklearn.model_selection import train_test_split as ttp
from sklearn.metrics import classification_report
import string
import matplotlib.pyplot as plt

import pandas as pd # Import the pandas library and alias it as 'pd'
data_true=pd.read_csv("/content/drive/MyDrive/True.csv")
data_fake=pd.read_csv("/content/drive/MyDrive/Fake.csv")

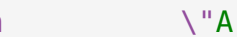
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Jobbik flags and posters deriding the ruling elite, gathered outside the headquarters of Orban's Fidesz party. What we see unfolding is not an audit office investigation. It is not an official penalty. This is a death sentence with Jobbik's name on it. But in reality, it is a death sentence for Hungarian democracy, Jobbik leader Gabor Vona told the crowd. A government spokesman could not comment immediately on his remarks. ASZ chairman Laszlo Domokos is a former Fidesz lawmaker, whom Jobbik and other critics accuse of making decisions in favor of Orban. The audit office denies that. On Friday, ASZ again called on Jobbik to submit information that would challenge its findings, saying it acted fully within its rights throughout the probe. The ruling Fidesz party and the government have denied any involvement in the ASZ probe. This case has nothing to do with the election campaign, Orban aide Janos Lazar said on Thursday. For over a year Fidesz has targeted Jobbik, whose move to the center could upend the longstanding status quo of a dominant Fidesz with weaker opponents to its left and its right, said analyst Zoltan Novak at the Centre for Fair Political Analysis. Gyorgy Illes, a 67-year-old pensioner attending the rally, said he used to be a Socialist supporter but got disillusioned as the party struggled to overcome its internal divisions. This ASZ probe is a clear sign that Orban is way past any remedy. It is a ruthless attack on everything we hold dear. Democracy, the rule of law, equality, you name it, he said. \",\n \"/>BEIJING/TAIPEI (Reuters) - China accused the United States on Thursday of interfering in its internal affairs and said it had lodged a complaint after U.S. President Donald Trump signed into law an act laying the groundwork for possible U.S. navy visits to self-ruled Taiwan. Tensions have risen in recent days after a senior Chinese diplomat threatened China would invade Taiwan if any U.S. warships made port visits to the island which China claims as its own territory. On Monday, Chinese jets carried out island encirclement patrols around Taiwan, with state media showing pictures of bombers with cruise missiles slung under their wings as they carried out the exercise. On Tuesday, Trump signed into law the National Defense Authorization Act for the 2018 fiscal year, which authorizes the possibility of mutual visits by navy vessels between Taiwan and the United States. Such visits would be the first since the United States ended formal diplomatic relations with Taiwan in 1979 and established ties with Beijing. Chinese Foreign Ministry spokesman Lu Kang said while the Taiwan sections of the law were not legally binding, they seriously violate the One China policy and constitute an interference in China's internal affairs. China is resolutely opposed to this, and we have already lodged stern representations with the U.S. government, Lu told a daily news briefing. China is firmly opposed to any official exchanges, military contact, or arms sales between Taiwan and the United States, he added. Proudly democratic Taiwan has become increasingly concerned with the ramped up Chinese military presence, that has included several rounds of Chinese air force drills around the island in recent months. Taiwan is confident

\samples\": [\n \"The moral decay continues The Kapiolani Medical Center for Women and Children at the University of Hawaii is currently recruiting pregnant girls and women to participate in second-trimester abortions to measure their bleeding during the operation, with and without antihemorrhagic drugs. According to the Clinical Trials website, run by the National Institutes of Health, participants must be at least 14 years old and 18-24 weeks pregnant. The controversial study, led by Bliss Kaneshiro, MD and Kate Whitehouse, DO, will monitor bleeding during D&E abortions to determine the effects of the drug oxytocin, commonly used to minimize blood loss and decrease the risk of hemorrhage. The clinical trial, called Effects of Oxytocin on Bleeding Outcomes during Dilation and Evacuation began in October 2014 and is a collaboration between UH, Society of Family Planning and the University of Washington. The Society of Family Planning funds a number of similar research projects, such as experimenting with the dosage of Misoprostol, a uterine contracting agent, prior to surgical abortions at 13-18 weeks and exploring umbilical cord injections to produce fetal death prior to late-term abortions. In the UH study, researchers will carry out a randomized, double-blinded, placebo-controlled trials, to determine the effect of oxytocin's use on uterine bleeding, meaning that they will either provide or deny intravenous oxytocin to the women. Reports suggest that some doctors are concerned that withholding oxytocin during surgery may put patients, especially teen girls, at risk. This study is reminiscent of Nazi concentration camp experiments. I pity the poor women who are being treated like lab rats, especially those who are denied the drug to reduce hemorrhaging, said Troy Newman, President of Operation Rescue. Dilation and evacuation abortions are surgical procedures that involve dismembering the pre-born baby with forceps, scraping the inside of the uterus with a curette to remove any residuals and finally suctioning out the womb to make sure the contents are completely removed. After the abortion, the corpse of the fetus is reassembled and examined to ensure everything was successfully removed and that the abortion was complete. The study is hoping to attract up to 166 test subjects and is expected to conclude in July 2015. Via: Breitbart News\", \n \"CNN was quick to scoop up Corey Lewandowski after Donald Trump kicked him out of his role as campaign manager, but his first week on the job is going pretty much exactly how you would expect it to go terribly. Not only has Lewandowski proven himself to be pretty much like a paid spokesman for Trump, but his defense of the disgraced GOP candidate isn't being received well. Earlier this week, Lewandowski revealed that he was under contract and couldn't criticize The Donald, even after being fired from the campaign. Today, Lewandowski got called out by Hillary Clinton surrogate Christine Quinn for hyping Trump up to be an expert on the Brexit decision a suggestion that was clearly false. On Monday's edition of CNN's New Day, Lewandowski made another pathetic defense of Trump by trying to reframe the candidate's disgusting reaction to Brexit, where he mostly spoke about how much the decision would be

good for his Scotland golf resort. Lewandowski's defense was: Obviously the U.S. dollar has become much stronger now against the British pound. If you're going to spend money in Europe, now would actually be a good time to go with the fall of the pound. What you have is a world view, so what you have is someone who is saying, Let's look at this from the U.S. perspective. If you want to go and travel overseas just from a monetary perspective now is the right time to do that because what you're getting is more for your dollar. Quinn wasn't having it. She ripped into Lewandowski, firing back, Donald Trump is not running to be travel agent of the world, he's running to be president of the United States. She continued: What he said wasn't a commentary on international markets, it was, When the pound goes down, more people will come to my golf course. Donald Trump's main concern isn't the international markets, it isn't the impact that Brexit will have on hard working Americans 401ks, it's himself. How can he make more money, how can he put more money in his bank account? Lewandowski compared the Brexit decision to Trump's rise in the GOP, and Quinn once again called him out and put him back in his place. She said: Trump touted that he saw this coming. That's ridiculous because when he was first asked about Brexit by the press, he didn't appear to know what it was. Lewandowski tried to counter by insisting that People are too smart, they are tired of being told what to do. He then tried to commend Trump for being a selfish moron: You know what Donald Trump said about Brexit? What he said was, you don't have to listen to me because it's not my decision. He didn't weigh in like Hillary Clinton did, like Barack Obama did, saying that you can't do this. Quinn fought back, Because he didn't know what it was. Lewandowski was fighting a losing battle. Trump's reaction to Brexit was just as terrifying as it was humorous it truly proved that Trump knows nothing about foreign affairs, and hasn't spent any time educating himself since the beginning of his presidential candidacy. If only some of the hours he spent getting into fights on Twitter were being used for learning about how the world works. But instead, he once again exposed himself as an unfit choice for President. And when people like Lewandowski try to make sense of his idiocy, they only make themselves look equally foolish. You can watch the embarrassing video below: Featured image via screen capture
Michigan woman decided to defend against tyranny? when she and another shopper couldn't agree over who got to buy the last notebook on the shelf at the Novi Towne Center store. According to ABC 13, the brawl yes, brawl involved two Farmington Hills residents, ages 46 and 32, and a mother and daughter from South Lyon, ages 51 and 20. In other words, these were all grown adults who should have known better but hey there was only one notebook on the shelf, and we've all seen what happens in those post-apocalyptic movies when a store is down to the last gallon of milk, right? Two of the women, one of whom was the unnamed 20-year-old, reached for the notebook at the same time. The 46 and 32-year-olds apparently decided that she wasn't getting their goddamn notebook and began pulling her hair. Then, because this had

almost hit peak trailer park, the 20-year-old's mother decided to go for bonus points by pulling out her gun. Fortunately, someone pushed her aside before she could do any harm. This is one of the NRA's responsible gun owners (conservatives can't dismiss this one, as it is confirmed that she is a concealed carry permit holder) ready to leap into action at the most minor sign of danger and make things worse by turning the situation potentially deadly. Watch it happen below: Featured image via screengrab

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data_fake_manual_testing = data_fake.tail(10)
for i in range(21416,21406,-1):
    data_fake.drop([i],axis=0, inplace=True)
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```
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data_manual_testing.to_csv("manual_testing.csv")
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Republican leader Mitch McConnell said on Wednesday "messages of hate and bigotry" from white supremacists, the Ku Klux Klan and neo-Nazi groups should not be welcome anywhere in the United States.

"We can have no tolerance for an ideology of racial hatred.

There are no good neo-nazis, and those who espouse their views are not supporters of American ideals and freedoms. We all have a responsibility to stand against hate and violence, wherever it raises its evil head," McConnell said in a statement. "

"The United States as we know it is over at least that's the prediction by Norwegian professor Johan Galtung, who's known as the man who predicted the collapse of the Soviet Union. Why is our country over? Because of Donald Trump. Galtung has been predicting the demise of the U.S. as a superpower since 2000. Back then, he said it would come in 2025. That was before George W. Bush took office, though. That presidency sped up the inevitable, according to Galtung, by five years. Trump's election is going to speed it up even more. He told Motherboard the election of Mr. Trump speeds up the decline, although he qualified the statement, saying: Of course, what he does as a President remains to be seen. Source: IndependentOne of the pressing issues with Trump is his nationalism, and in particular, his hostility toward NATO. The collapse has two faces, Dr Galtung told the tech news site, Other countries refuse to be good allies and the USA has to do the killing themselves, by bombing from high altitudes, drones steered by computer from an office, special forces killing all over the place. Both are happening today, except for Northern Europe, which supports these wars, for now. That will probably not continue beyond 2020, so I stand by that deadline. Naturally, not everyone agrees. Yet Xenia Wickett, who heads the US and Americas program at the think tank called Chatham House said that the mere fact that the United States has the largest military and some great universities will protect our superpower status for a long time. Remember, though, that this has been a year of odd predictions coming true. Despite the media and the predictions of nearly every pundit, one professor, a professor who has a track record of predicting elections, predicted Donald Trump would win. As for our military and intellectual prowess, well, Trump intends to boost military spending while decreasing tax collection. That is a quick way to bankruptcy. And, as this year's election has shown, we can no longer lay claim to intellectual superiority. Featured image via Drew Angerer/Getty Images"

"PARIS (Reuters) - The United States has disqualified itself from the Middle East peace process due to its recognition of Jerusalem as Israel's capital, said Palestinian President Mahmoud Abbas on Friday. The United States are no longer an honest mediator in the peace process, we will not accept any plan put forward by the United States, said Abbas, speaking through a translator at a joint news briefing in Paris with French President Emmanuel Macron. Abbas also condemned a threat by U.S. President Donald Trump to cut off financial aid to countries that voted at the United Nations against the United States decision to recognize Jerusalem as Israel's capital. On Thursday, more

than 120 countries defied Trump and voted in favor of a United Nations General Assembly resolution calling for the United States to drop its recent recognition of Jerusalem as Israel's capital. Macron reiterated on Friday that France remained committed to a two-state solution, namely one in which Israel and Palestine peacefully co-exist side-by-side with one another. Macron added that France would recognize a Palestinian state at the right time, and not under pressure. \n\n

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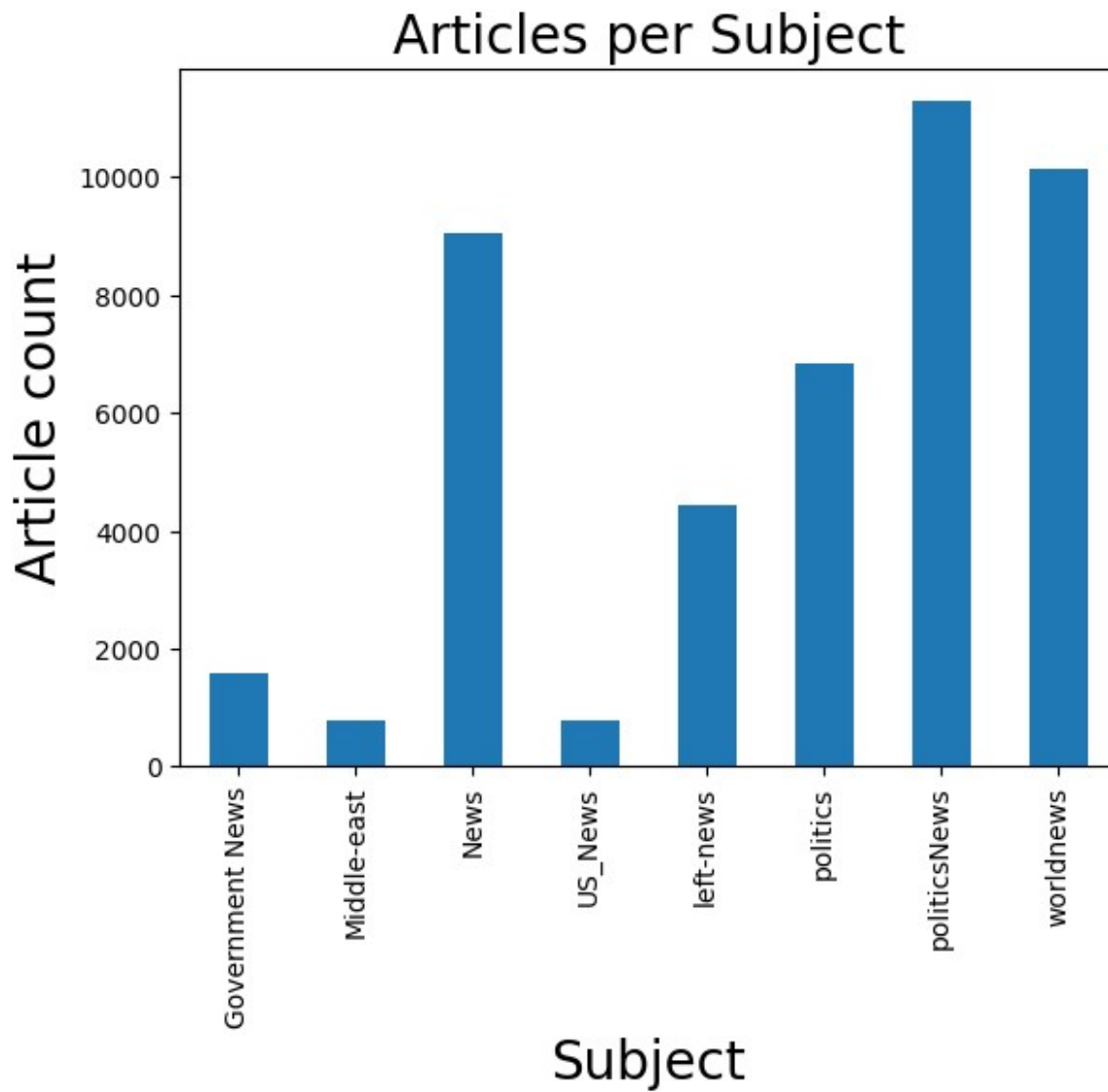
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import matplotlib.pyplot as plt
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print(data_merge.groupby(['subject'])['text'].count())
data_merge.groupby(['subject'])['text'].count().plot(kind="bar")
plt.title("Articles per Subject",size=20)
plt.xlabel("Subject",size=20)
plt.ylabel("Article count",size=20)
plt.show()
```

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Requirement already satisfied: matplotlib in
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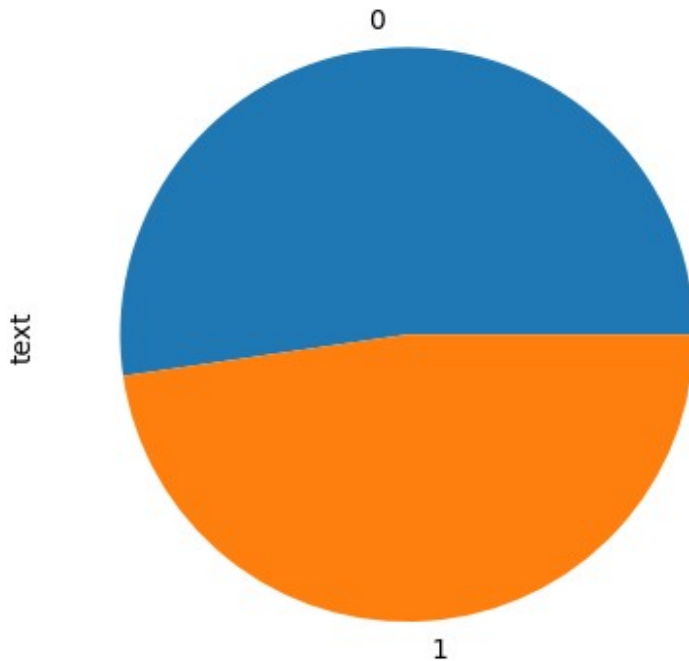
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Middle-east          778
News                 9050
US_News              783
left-news            4449
politics             6841
politicsNews         11272
worldnews            10135
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print(data_merge.groupby(['class'])['text'].count())
print("0 = Fake news\n1 = True news")
data_merge.groupby(['class'])['text'].count().plot(kind="pie")
plt.title("Fake news and True news",size=20)
plt.show()
```

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class
0    23471
1     21407
Name: text, dtype: int64
0 = Fake news
1 = True news
```

Fake news and True news



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what he does as a President remains to be seen. Source: IndependentOne of the pressing issues with Trump is his nationalism, and in particular, his hostility toward NATO. The collapse has two faces, Dr Galtung told the tech news site, Other countries refuse to be good allies and the USA has to do the killing themselves, by bombing from high altitudes, drones steered by computer from an office, special forces killing all over the place. Both are happening today, except for Northern Europe, which supports these wars, for now. That will probably not continue beyond 2020, so I stand by that deadline. Naturally, not everyone agrees. Yet Xenia Wickett, who heads the US and Americas program at the think tank called Chatham House said that the mere fact that the United States has the largest military and some great universities will protect our superpower status for a long time. Remember, though, that this has been a year of odd predictions coming true. Despite the media and the predictions of nearly every pundit, one professor, a professor who has a track record of predicting elections, predicted Donald Trump would win. As for our military and intellectual prowess, well, Trump intends to boost military spending while decreasing tax collection. That is a quick way to bankruptcy. And, as this year's election has shown, we can no longer lay claim to intellectual superiority. Featured image via Drew Angerer/Getty Images

PARIS (Reuters) - The United States has disqualified itself from the Middle East peace process due to its recognition of Jerusalem as Israel's capital, said Palestinian President Mahmoud Abbas on Friday. The United States are no longer an honest mediator in the peace process, we will not accept any plan put forward by the United States, said Abbas, speaking through a translator at a joint news briefing in Paris with French President Emmanuel Macron. Abbas also condemned a threat by U.S. President Donald Trump to cut off financial aid to countries that voted at the United Nations against the United States' decision to recognize Jerusalem as Israel's capital. On Thursday, more than 120 countries defied Trump and voted in favor of a United Nations General Assembly resolution calling for the United States to drop its recent recognition of Jerusalem as Israel's capital. Macron reiterated on Friday that France remained committed to a two-state solution, namely one in which Israel and Palestine peacefully co-exist side-by-side with one another. Macron added that France would recognize a Palestinian state at the right time, and not under pressure.

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time that we saw the Indian-American community really come, the Democrat from Santa Ana added before the clip cut out. Sanchez's rival in the Democratic race to replace U.S. Sen. Barbara Boxer called the incident shocking. I don't know what to say to that, said Attorney General Kamala Harris, whose mother is from India and father is African-American, reports The Sacramento Bee. It is shocking and there is no place for that in our public discourse, she added. Sanchez, who'd been meeting with delegates to start the shaping of her campaign, defended her actions. What I said was that I got a call from somebody from over the phone and he said, I want to talk to you about having help from the Indian community, and I thought he meant the American Indian community, in the sense of the Native American Indian community, she said. When asked whether it was an appropriate gesture to make to any people, the 55-year-old replied: I think that Native Americans have an incredibly great history, and a great presence in our country, and many of them are supporting our election. Via: NY Daily News", \n

WASHINGTON (Reuters) - Two U.S. Senators urged auto safety regulators to publicly name the makes and models of tens of millions of vehicles with potentially faulty Takata air bag inflators, according to a letter made public late on Thursday. \u201cThere may still be 50 million airbags installed in vehicles whose owners not only have no idea, but also no way to find out, that they are driving a car containing potentially lethal airbags,\u201d wrote Senators Ed Markey, a Massachusetts Democrat and Richard Blumenthal, a Connecticut Democrat. On Wednesday, the U.S. National Highway Traffic Safety Administration (NHTSA) confirmed the Japanese air bag manufacturer would declare between 35 million and 40 million additional inflators defective by 2019, which will prompt automakers to recall vehicles with the inflators. The 50 million inflators that could still be recalled include 27 million side air bags and 23 million frontal air bag inflators. As part of a November agreement with NHTSA, those vehicles must also be recalled by 2019 unless Takata can prove they are safe. Takata must issue five separate defect reports starting May 16 and ending in 2019. Takata said the first report will cover 14 million of the 35 million to 40 million inflators being recalled. The second report is not due until Dec. 31 and subsequent reports are due in 2017, 2018 and 2019. NHTSA spokesman Bryan Thomas said automakers \u201cwill provide the information about the models and makes in the coming weeks.\u201d He did not directly respond to the senators' demands on the inflators that have not yet been recalled. Takata spokesman Jared Levy declined to comment. The senators want NHTSA to release regular updates regarding testing data on Takata airbags and their failure rates. To date, 14 automakers have recalled 28.8 million Takata inflators in about 24 million vehicles. Three additional automakers are part of the expansion. The latest recall means all Takata ammonium nitrate-based driver and passenger frontal air bag inflators without a chemical drying agent, known as a desiccant, will be recalled. But 23 million Takata frontal air bags with a desiccant have not been recalled. When exposed to moisture, ammonium nitrate, which is used to inflate the air bag, can cause the


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inflater to rupture with deadly force, spraying shrapnel into vehicle
occupants. The defect is linked to at least 11 deaths and more than
100 injuries worldwide since 2008. Takata said it is not aware of any
ruptures in the inflators in the vehicles that are part of recall
announced Wednesday.
],
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"description": ""
},
{
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"properties": {
"dtype":
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"std": 0,
"min": 0,
"max": 1,
"num_unique_values": 2,
"samples":
[0, 1],
"semantic_type":
"",
"description": ""
}
}],
"type": "dataframe", "variable_name": "data"
}

```

```
data.isnull().sum()
```

```

text      0
class     0
dtype: int64

```

```

import re
import string

```

```

def filtering(data):
    text=data.lower()
    text=re.sub('[.*?]', '', text)
    text=re.sub("\\W", "", text)
    text=re.sub('https?://\\S+|www\\.\\S+', '', text)
    text=re.sub('<.*?>+', '', text)
    test=re.sub('[%s]' % re.escape(string.punctuation), '', text)
    text=re.sub('\\n', '', text)
    text=re.sub('\\w*\\d\\w*', '', text)
    return text

```

```

data["text"]=data["text"].apply(filtering)
data.head(10)

```

```

{"summary": "{
  "name": "data",
  "rows": 44878,
  "fields": [
    {
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      "properties": {
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        "num_unique_values": 38348,
        "samples": [
          "washington reuters the government is offering to help states
protect the nov u s election from hacking or other tampering in
the face of allegations by republican party presidential candidate
donald trump that the system is open to fraud homeland security
secretary jeh johnson told state officials in a phone call on monday
that federal cyber security experts could scan for vulnerabilities in
voting systems and provide other resources to help protect against
infiltration his office said in a statement trump has questioned the
integrity of u s election systems in recent weeks but his
allegations have been vague and unsubstantiated the attempts to sow

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doubts about the election results coincided with trump's slide in opinion polls against democratic party candidate hillary clinton and missteps in his campaign his complaints have focused on fears of voter fraud that people will vote more than once rather than election rigging i mean people are going to walk in they're going to vote times maybe who knows they're going to vote times so i am very concerned and i hope the republicans are going to be very watchful trump said in an aug interview president barack obama dismissed the claims as ridiculous of course the elections will not be rigged what does that mean obama said at a news conference the next day in his phone call johnson encouraged the state officials to comply with federal cyber recommendations such as making sure electronic voting machines are not connected to the internet while voting is taking place the department said concerns in both parties about manipulation of electronic electoral systems are not new hackers can wreak havoc in myriad ways from hijacking a candidate's website to hacking voting machines or deleting or changing election records an electronic privacy information center report this week said of the states would allow voting by insecure email fax and internet portals in this election cycle

"new york reuters real estate billionaire donald trump's coarse rhetoric has won him some fans but there's at least one large group in america that is increasingly unimpressed women half of u.s. women say they have a very unfavorable view of the front runner for the republican presidential nomination according to reuters ipsos polling up from the percent who felt that way in october the survey was taken from march and included respondents the rise in anti trump sentiment among women could pose a problem for the new york billionaire in his quest for the white house women form just over half of the u.s. population and they have turned out at higher rates than men in every election since according to the u.s. census bureau if the presidential election were tomorrow women would be a big problem for trump republican strategist david carney said but he has time to fix it a trump campaign official did not immediately respond to a request for comment but trump has said that he has had good relationships with women in his business career and is well liked by women voters several women who oppose trump interviewed by reuters this week said their disapproval was based on a range of factors from his disparaging comments about women he dislikes such as fox news host megyn kelly to his hard line views on immigration and his ribald exchanges with rivals i think trump is very scary said mariah dobias a year old cook who was voting in ohio's primary on tuesday he says he is going to make america great but he doesn't say how he is going to do it besides alienating whole groups of people carolyn hostetler a conservative from tennessee told reuters she disliked the way he has belittled women some of trump's female supporters meanwhile said they liked his straight talk and believe he could strengthen america's position on the world stage he's a little unpredictable as we've seen said kathleen douglas a year


```

x_train,x_test,y_train,y_test=ttp(x,y,test_size=0.25,random_state=0)

from sklearn.feature_extraction.text import TfidfVectorizer

vectorization = TfidfVectorizer()
xy_train = vectorization.fit_transform(x_train)
xy_test = vectorization.transform(x_test)

from sklearn.linear_model import LogisticRegression

LR = LogisticRegression()
LR.fit(xy_train,y_train)

LogisticRegression()

from sklearn.feature_extraction.text import TfidfVectorizer

# Define or import your training data here
x_train = ["This is a sample news article for training.", "Another
news article for training."] # Replace with your actual training data

vectorization = TfidfVectorizer()
vectorization.fit_transform(x_train) # Fit the vectorizer to your
training data

def predict_news(text):
    # Check if filtering is needed and define the function if
necessary
    def filtering(text):
        # Implement your filtering logic here, e.g., lowercase
conversion, punctuation
        return text.lower() # Example: Convert to lowercase

from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression # Import
LogisticRegression

# Define or import your training data here
x_train = ["This is a sample news article for training.", "Another
news article for training."] # Replace with your actual training data
y_train = [0, 1] # Replace with actual labels corresponding to your
training data

vectorization = TfidfVectorizer()
x_train_transformed = vectorization.fit_transform(x_train) # Fit the
vectorizer to your training data

# Initialize and train the Logistic Regression model
LR = LogisticRegression()
LR.fit(x_train_transformed, y_train) # Train the model

```

```

# Define the filtering function in the global scope
def filtering(text):
    # Implement your filtering logic here, e.g., lowercase conversion,
    # punctuation
    return text.lower() # Example: Convert to lowercase

def predict_news(text):
    text_vectorized = vectorization.transform([filtering(text)]) # Now
    # filtering is accessible
    prediction = LR.predict(text_vectorized) # LR is now defined in
    # this scope
    if prediction == 1:
        return "This news is likely true."
    else:
        return "This news is likely fake."

user_input = input("Enter news text: ")
result = predict_news(user_input)
print(result)

```

Enter news text: WASHINGTON (Reuters) - The head of a conservative Republican faction in the U.S.
This news is likely fake.

```

from sklearn.tree import DecisionTreeClassifier

DT = DecisionTreeClassifier()

DT.fit(x_train_transformed, y_train)

DecisionTreeClassifier()

# Assuming 'x_test' contains your test data and 'vectorization' is the
# fitted TfidfVectorizer
x_test = ["This is a sample news article for testing.", "Another news
# Define your test data here
article for testing."]
xv_test = vectorization.transform(x_test)

pred_dt = DT.predict(xv_test)

y_test = [0, 1] # Replace with your actual test labels
DT.score(xv_test, y_test) # Use xv_test, which is the transformed test
data

```

1.0

```

!pip install scikit-learn
from sklearn.metrics import classification_report

# Assuming 'DT' is your trained model and 'xv_test' is your
# transformed test data
pred_dt = DT.predict(xv_test) # Calculate predictions using your

```

model

```
y_test = [0, 1] # Replace with your actual test labels
print(classification_report(y_test, pred_dt)) # Use 'pred_dt' instead
of 'pred_lr'
```

```
Requirement already satisfied: scikit-learn in
/usr/local/lib/python3.10/dist-packages (1.2.2)
Requirement already satisfied: numpy>=1.17.3 in
/usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.25.2)
Requirement already satisfied: scipy>=1.3.2 in
/usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.11.4)
Requirement already satisfied: joblib>=1.1.1 in
/usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.4.0)
Requirement already satisfied: threadpoolctl>=2.0.0 in
/usr/local/lib/python3.10/dist-packages (from scikit-learn) (3.5.0)
```

	precision	recall	f1-score	support
0	1.00	1.00	1.00	1
1	1.00	1.00	1.00	1
accuracy			1.00	2
macro avg	1.00	1.00	1.00	2
weighted avg	1.00	1.00	1.00	2

```
def predict_news(text):
    text_vectorized = vectorization.transform([filtering(text)])
    prediction = DT.predict(text_vectorized)
    if prediction == 1:
        return "This news is likely true."
    else:
        return "This news is likely fake."
user_input = input("Enter news text: ")
result = predict_news(user_input)
print(result)
```

```
Enter news text: WASHINGTON (Reuters) - The head of a conservative
Republican faction in the U.S
This news is likely true.
```

```
from sklearn.ensemble import RandomForestClassifier
```

```
from sklearn.ensemble import RandomForestClassifier
```

```
# Replace '...' with your actual training data
xv_train = [[1, 2, 3], [4, 5, 6]] # Example data, replace with your
actual data
```

```
y_train = [0, 1]
```



```

RF = RandomForestClassifier(random_state = 0)
RF.fit(xv_train, y_train) # Now this should work with valid data

RandomForestClassifier(random_state=0)

# Assuming 'xv_test' is your transformed test data with 8 features
# And you want to use the previously trained model 'RF'

# Select the first 3 features of xv_test to match the training data
xv_test_subset = xv_test[:, :3]

pred_rf = RF.predict(xv_test_subset)
RF.score(xv_test_subset, y_test)

```

0.5

```
print (classification_report(y_test, pred_rf))
```

	precision	recall	f1-score	support
0	0.50	1.00	0.67	1
1	0.00	0.00	0.00	1
accuracy			0.50	2
macro avg	0.25	0.50	0.33	2
weighted avg	0.25	0.50	0.33	2

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_
_classification.py:1344: UndefinedMetricWarning: Precision and F-score
are ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, msg_start, len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classificatio
n.py:1344: UndefinedMetricWarning: Precision and F-score are ill-
defined and being set to 0.0 in labels with no predicted samples. Use
`zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, msg_start, len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classificatio
n.py:1344: UndefinedMetricWarning: Precision and F-score are ill-
defined and being set to 0.0 in labels with no predicted samples. Use
`zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, msg_start, len(result))

```

```

def predict_news(text):
    text_vectorized = vectorization.transform([filtering(text)])
    # Select the first 3 features of text_vectorized to match the
training data
    text_vectorized_subset = text_vectorized[:, :3]
    prediction = RF.predict(text_vectorized_subset) # Use the subset

```

```
here
    if prediction == 1:
        return "This news is likely true."
    else:
        return "This news is likely fake."
```

```
user_input = input("Enter news text: ")
result = predict_news(user_input)
print(result)
```

```
Enter news text: WASHINGTON (Reuters) - The head of a conservative
Republican faction in the U.S.
This news is likely fake.
```