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import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split as ttp
from sklearn.metrics import classification_report
from sklearn.metrics import confusion_matrix
import re #for data cleaning purpose
import string #to deal with text data
import matplotlib.pyplot as plt #for visualizing dataset

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

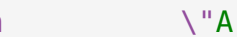
of its defenses and responded quickly to the Chinese air force drills this week, its government said, denouncing the rise in China's military deployments as irresponsible. Taiwan presidential spokesman Alex Huang, speaking to Taiwan media in comments reported late on Wednesday, said the defense ministry had kept a close watch on the patrols and responded immediately and properly. Taiwan can ensure there are no concerns at all about national security, and people can rest assured, Huang said. Both sides of the narrow Taiwan Strait, which separates Taiwan from its giant neighbor, have a responsibility to protect peace and stability, he added. Such a raised military posture that may impact upon and harm regional peace and stability and cross-strait ties does not give a feeling of responsibility, and the international community does not look favorably upon this, Huang was quoted as saying. Relations have soured considerably since Tsai Ing-wen, who leads Taiwan's independence-leaning Democratic Progressive Party, won presidential elections last year. China suspects Tsai wants to declare the island's formal independence, a red line for Beijing. Tsai says she wants to maintain peace with China but will defend Taiwan's security. Taiwan is well equipped with mostly U.S. weapons but has been pressing for more advanced equipment to deal with what it sees as a rising threat from China. The United States is bound by law to provide the island with the means to defend itself. China has never renounced the use of force to bring Taiwan under its control. \\n

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\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](#) A 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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```
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```

```
data_true["class"] = 1
```

```
data_fake["class"] = 0
```

```
data_true_manual_testing = data_true.tail(10)
```

```
for i in range(21416, 21406, -1):
    data_true.drop([i], axis=0, inplace=True)
```

```
data_fake_manual_testing = data_fake.tail(10)
```

```
for i in range(21416, 21406, -1):
    data_fake.drop([i], axis=0, inplace=True)
```

```
data_manual_testing =
```

```
pd.concat([data_fake_manual_testing, data_true_manual_testing])
```

```
data_manual_testing.to_csv("manual_testing.csv")
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data_merge = pd.concat([data_fake, data_true], axis=0)
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Republican leader Mitch McConnell said on Wednesday \"\u201cmessages of
hate and bigotry\" \u201d from white supremacists, the Ku Klux Klan and
neo-Nazi groups should not be welcome anywhere in the United States.
\" \u201cWe 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,\" \u201d McConnell said in a statement. \", \n
\"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: Independent One 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\", \n
\"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,

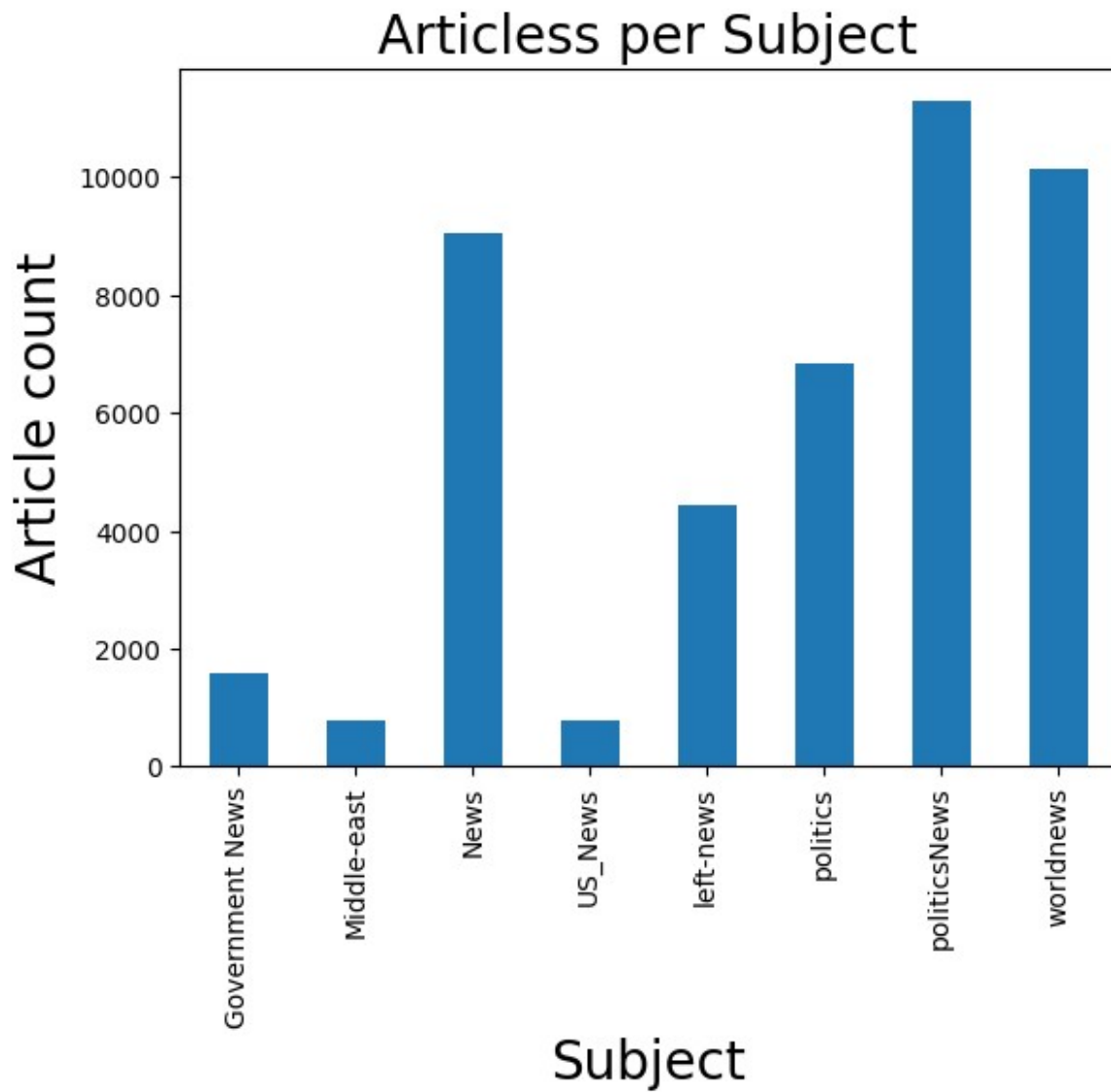
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said Abbas, speaking through a translator at a joint news briefing in Paris with French President Emmanuel Macron. Abbas also condemned a threat by U.S. President Donald Trump to cut off financial aid to countries that voted at the United Nations against 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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plt.xlabel("Subject", size=20)
plt.ylabel("Article count", size=20)
plt.show()
#
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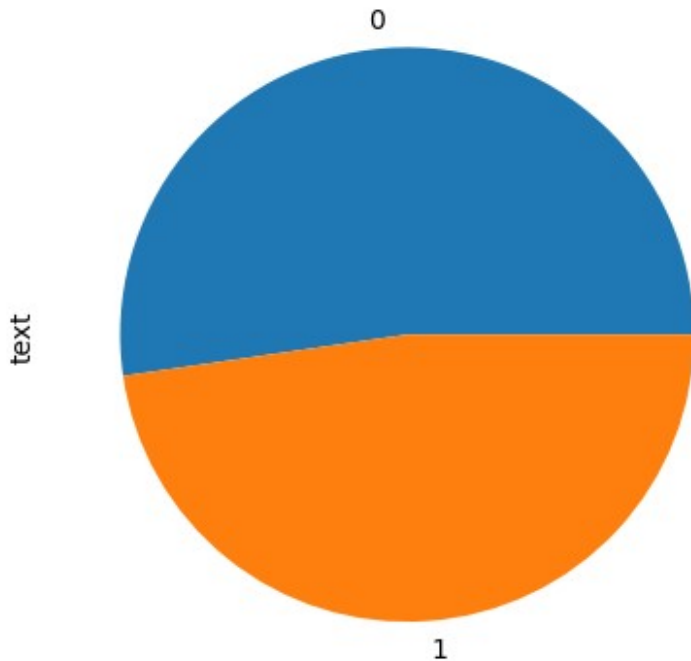
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Middle-east        778
News               9050
US_News            783
left-news          4449
politics           6841
politicsNews       11272
worldnews          10135
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print("0 = Fake news\n1 = True 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
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1     21407
Name: text, dtype: int64
0 = Fake news
1 = True news
```

Fake news and True news



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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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data.head(10)

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        ]
      }
    }
  ]
}

```

of guy Trump would want to keep around. Also on Tuesday, purely by coincidence of course, news broke that Trump's national security adviser was cleared of any wrongdoing in his frantic communications with Russian ambassador Sergey Kislyak on the same day President Obama announced sanctions against Russia for their cyberattack on our nation during the election. White House Press Secretary Sean Spicer, who also says that Trump had the most heavily-witnessed inauguration in history, and for whom Kellyanne Conway created a new term, alternative facts, in an effort to normalize his lies, explained Monday that the two aren't in frequent contact but have spoken recently on a number of issues that were completely innocent, like logistics for a post-inauguration call between Trump and his Russian dictator friend who 17 intelligence agencies say directly interfered with our election on The Donald's behalf. The problem here is that Americans cannot be sure if the presented results are legitimate, as the FBI is headed by someone who went out of his way, breaking precedent and probably the law, to aid Trump in the election with misleading information about Clinton. This same man was just rewarded for his actions when Trump allowed him to keep his job. But Trump also has the power to fire him if he isn't satisfied with the results of any of the numerous investigations into his team. In November, Trump said that Comey made a mistake when he announced that Hillary Clinton had committed no crimes and would not be charged, but brought back his reputation when he released the letter that gave right-wing propaganda outlets (and Putin's team of propagandists) much-needed ammo just before the election. So now, we as Americans are presented with a dilemma: Do we accept the words of the FBI, knowing that Trump can fire the person in charge of the investigations, when he is someone who has shown a corrupt desire to interfere in important things like elections in the past? Or do we demand a full release of investigatory documents and transcripts just to be sure the truth is being told? Probably better to be safe about this. Featured image by Andrew Harrer via Getty Images \",\n \"/>Donald Trump is going to jail, and his former business partner knows it. The investigation into Trump's Russia scandal is ongoing, but it is getting closer to nailing him for collusion and other crimes. Special Prosecutor Robert Mueller has convened a grand jury to hear evidence, and that includes a former Trump business partner who is preparing to go prison over what he has to say. But he won't be alone in his cell. Because what Felix Sater says could land Trump in the bunk right next to him. Sater worked with Trump on many of his shady business dealings, including selling real estate to the Russians, one property being involved in a money-laundering scheme. Mueller's investigation into Trump's financial dealings has apparently dug up some really juicy stuff that proves Trump is a criminal who should be behind bars instead of the Oval Office. Trump tipped off investigators by warning Mueller to stay away from his family's finances. And he tipped them off even further by admitting that he may have sold condos to Russians. I mean, it's possible there's a condo or something, so, you know, I sell a lot of condo units, and somebody from Russia buys a condo, who knows? Trump


```
text=re.sub('\w*\d\w*', '', text)
return text
```

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

```
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speech he's cured. Still, there was plenty of evidence of ongoing partisan divisions in the chamber of the house of representatives where trump spoke. Democrats sometimes sat in silence and turned their thumbs down at his remarks. Many women lawmakers wore white in a subtle show of protest. Democratic senator christopher coons of delaware called trump's speech one of the most coherent public addresses he's given in a month. But coons said he viewed trump's forthcoming budget proposals as gravely concerning, citing the president's plan for paying for a defense buildup by cutting foreign aid and other programs. Much of trump's speech focused on solving problems at home in line with his 'america first' rhetoric. Apart from criticizing obama for increasing the national debt, trump did not mention the federal budget deficit, which will severely limit any new spending programs on immigration. Trump again pledged to build a wall on the u.s. mexico border, but he made no mention this time of mexico paying for it. He also said he would shortly take new steps to keep our nation safe, referring to a new executive order he is to sign to replace one embroiled in the courts. Trump focused part of the speech on foreign policy, stressing his support for nato but insisting allies pay more for their defense. In a possible nod to his bid to warm relations with russia, which he did not mention by name, trump said america is willing to find new friends and to forge new partnerships where shared interests align. Trump has been criticized for his praise of russian president vladimir putin. A u.s. congressional committee is investigating contacts between trump's election campaign and russia to see if there were any inappropriate communications. We want harmony and stability, not war and conflict, said trump, who said, however, he would embark on a big defense buildup. Trump said he wanted to provide massive tax relief to the middle class and cut corporate tax rates, but he did not offer specifics and failed to comment on the most pressing tax issue facing congress: a proposed border adjustment tax to boost exports over imports. Lawmakers have been looking to trump for more leadership on an issue that has divided corporate america and republicans in congress. Trump called on the republican-led congress to repeal and replace obamacare with reforms that expand choice, increase access and lower costs. Republicans remain divided on how to accomplish that goal and democrats vehemently oppose tampering with a system that provides health insurance for millions of low-income americans. While trump's comments lacked detail, it was the first time he publicly supported tax credits to help americans purchase their own coverage, a nod to health insurers who say they are necessary to keep people in the market. Former kentucky governor steve beshear said in the democratic response to trump's speech that you and your republican allies in congress seem determined to rip affordable health insurance away from millions of americans who most need it. In the most emotional moment of the night, trump singled out carryn owens, the widow of u.s. navy seal william ryan owens, who was killed in a raid on al qaeda in yemen. Owens' tears streaming down her face, clasped her hands and looked upward.


```

from sklearn.datasets import make_classification
from sklearn.linear_model import LogisticRegression
LR=LogisticRegression()

x,y = make_classification(n_samples=1000,
                          n_features=4,
                          n_classes=2,
                          n_clusters_per_class=1,
                          flip_y=0.1,
                          n_informative=2,
                          n_redundant=0,
                          n_repeated=0,
                          )

x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=23)

x_train.shape
(800, 4)

log_reg = LogisticRegression()
log_reg.fit(x_train,y_train)

LogisticRegression()

y_pred = log_reg.predict(x_test)

confusion_matrix(y_test,y_pred)
array([[106,  3],
       [ 3,  88]])

import seaborn as sns

data_cat = data.select_dtypes(object) # Use built-in 'object' instead
of 'np.object'
data_num = data.select_dtypes(np.number)

data_num

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  }

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prospect of using diplomacy before cruise missiles in donald trump s foreign policy speech today he made numerous points that would lead us to believe that his stance on this area of policy will be radically different to what has become the norm aside from the usual campaign rhetoric of ensuring america has the strongest military on the planet trump made numerous points clearly stating that the military option will not be his first option trump specifically spoke of being very careful as to whom the us assists particularly in the middle east and to only help those who are true allies which is a clear stab at recent policies to arm and support terrorist groups to overthrow nations like libya and syria he also explicitly stated that the us needs to stop seeking radical change in the world and instead look to promote stability through diplomacy saying our goal is peace and prosperity not war and destruction the presidential hopeful is also looking to drastically cool off the rising tensions with russia he called out so called foreign policy experts for ruining the situation and said easing of tensions and improved relations with russia is absolutely possible it would be easy to dismiss all of these statements as nothing but campaign rhetoric but trump appears to be positioning himself as the master dealmaker he has nothing to gain from being a warmonger as he is not tied to the military industrial complex interests like establishment candidates so there is no real reason to doubt this anti interventionist stance watch donald trump s full foreign policy speech here [\",\n](#) [\"washington reuters](#) u s house speaker paul ryan and likely republican presidential nominee donald trump are to speak by telephone on wednesday evening a spokesman for ryan said this is not an endorsement call spokesman zack rodan said ryan the top u s elected republican on wednesday continued to withhold his support from trump for the presidential nomination saying he was not ready to endorse the real estate billionaire ryan set up the call with trump to continue discussing the party s campaign agenda a ryan aide said [\"\\n](#) [\],\\n](#) [\"semantic_type\\\": \"\\\",\\n](#) [\"description\\\": \"\\\"\\n](#) [}\"\\n](#) [}\\n](#) [\]\\n}\"](#),[\"type\":\"dataframe\",](#)[\"variable_name\":\"data_cat\"}](#)

```
import warnings
warnings.filterwarnings('ignore')
# Create dummy variables and join with the original DataFrame
data_cat_dummies = pd.get_dummies(data_cat['text'], prefix='text',
drop_first=True)
data_cat = pd.concat([data_cat, data_cat_dummies], axis=1)
# Optionally, drop the original 'text' column
data_cat = data_cat.drop('text', axis=1)

data_ml=pd.concat([data_num,data_cat],axis=1)

data_ml.describe()

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}\n      }\n      ]\n    }","type":"dataframe"}
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```
data.columns
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```
Index(['text', 'class'], dtype='object')
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```
data = data[['text','class']]
```

```
data
```

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\ "washington reuters president donald trump told congress on
tuesday he was open to immigration reform shifting from his harsh
rhetoric on illegal immigration in a speech that offered a more
restrained tone than his election campaign and first month in the
white house trump in a prime time address to a country that remains
divided over his leadership set aside disputes with democrats and the
news media to deliver his most presidential performance to date
seeking to regain the confidence of americans rattled by his
leadership thus far the president s speech was long on promises but
short on specifics on how to achieve a challenging legislative agenda
that could add dramatically to budget deficits he wants a healthcare
overhaul broad tax cuts and a trillion public private initiative to
rebuild degraded roads and bridges trump built a base of support
behind his presidential campaign by vowing to fight illegal
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said it was possible if both republicans and democrats in congress
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```

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americans purchase their own coverage a nod to health insurers who say they are necessary to keep people in the market former kentucky governor steve beshear said in the democratic response to trump s speech that you and your republican allies in congress seem determined to rip affordable health insurance away from millions of americans who most need it in the most emotional moment of the night trump singled out carryn owens the widow of u s navy seal william ryan owens who was killed in a raid on al qaeda in yemen owens tears streaming down her face clasped her hands and looked upward from her spot in the balcony as lawmakers and the president applauded her in the longest ovation of trump s hour long speech trump said the mission that her husband participated in obtained vital intelligence that could be used against islamist militants taking issue with news reports quoting u s officials who said little was gained from the raid \",\n \"/>century wire says we are sure that the military industrial complex is not at all happy about the prospect of using diplomacy before cruise missiles in donald trump s foreign policy speech today he made numerous points that would lead us to believe that his stance on this area of policy will be radically different to what has become the norm aside from the usual campaign rhetoric of ensuring america has the strongest military on the planet trump made numerous points clearly stating that the military option will not be his first option trump specifically spoke of being very careful as to whom the us assists particularly in the middle east and to only help those who are true allies which is a clear stab at recent policies to arm and support terrorist groups to overthrow nations like libya and syria he also explicitly stated that the us needs to stop seeking radical change in the world and instead look to promote stability through diplomacy saying our goal is peace and prosperity not war and destruction the presidential hopeful is also looking to drastically cool off the rising tensions with russia he called out so called foreign policy experts for ruining the situation and said easing of tensions and improved relations with russia is absolutely possible it would be easy to dismiss all of these statements as nothing but campaign rhetoric but trump appears to be positioning himself as the master dealmaker he has nothing to gain from being a warmonger as he is not tied to the military industrial complex interests like establishment candidates so there is no real reason to doubt this anti interventionist stance watch donald trump s full foreign policy speech here \",\n \"/>washington reuters u s house speaker paul ryan and likely republican presidential nominee donald trump are to speak by telephone on wednesday evening a spokesman for ryan said this is not an endorsement call spokesman zack rodny said ryan the top u s elected republican on wednesday continued to withhold his support from trump for the presidential nomination saying he was not ready to endorse the real estate billionaire ryan set up the call with trump to continue discussing the party s campaign agenda a ryan aide said \",\n \"/>],\n \"/>\"semantic_type\": \",\n \"/>\"description\": \",\n \"/>}\n

```
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```

```
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=23)
```

```
LR.fit(x_train,y_train)
```

```
LogisticRegression()
```

```
pred_lr=LR.predict(x_test)
```

```
LR.score(x_test, y_test)
```

```
0.97
```

```
print(classification_report(y_test,pred_lr))
```

	precision	recall	f1-score	support
0	0.97	0.97	0.97	109
1	0.97	0.97	0.97	91
accuracy			0.97	200
macro avg	0.97	0.97	0.97	200
weighted avg	0.97	0.97	0.97	200

```
!pip install scikit-learn
```

```
from sklearn.model_selection import train_test_split
```

```
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.25)
```

```
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) (1.4.2)
```

```
Requirement already satisfied: threadpoolctl>=2.0.0 in
```

```
/usr/local/lib/python3.10/dist-packages (from scikit-learn) (3.5.0)
```

```
from sklearn.feature_extraction.text import TfidfVectorizer
```

```
# Sample data - replace with your actual data
```

```
# Ensure both classes are represented in the training data
```

```

x_train = ["This is a true news article.", "This is fake news."]
x_test = ["Another real news story.", "Another fabricated story."]
y_train = [1, 0] # 1 for True, 0 for Fake
y_test = [1, 0]

vectorization = TfidfVectorizer()
xv_train = vectorization.fit_transform(x_train)
xv_test = vectorization.transform(x_test)

# You can now fit a classifier to the vectorized data
# For example, using Logistic Regression:
from sklearn.linear_model import LogisticRegression

LR = LogisticRegression()
LR.fit(xv_train, y_train) # Now the model has both classes to train on

# Predict on the test set
pred_lr = LR.predict(xv_test)

# Evaluate the model
from sklearn.metrics import classification_report
print(classification_report(y_test, pred_lr))

# Vectorize the new input before prediction
new_text = ["modi is not pm of india"]
new_text_vectorized = vectorization.transform(new_text)
prediction = LR.predict(new_text_vectorized)

if prediction[0] == 0:
    print("FAKE NEWS")
else:
    print("TRUE NEWS")

```

	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

FAKE NEWS

```

def predict_news(text):
    text_vectorized = vectorization.transform([filtering(text)])
    prediction = LR.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 fake.

```

from sklearn.ensemble import RandomForestClassifier

```

```

RFC=RandomForestClassifier(random_state=0)
RFC.fit(xv_train,y_train)

```

```

RandomForestClassifier(random_state=0)

```

```

RFC.score(xv_test,y_test)

```

```

0.5

```

```

pred_RFC = RFC.predict(xv_test)

```

```

print(classification_report(y_test,pred_RFC))

```

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

```

def predict_news(text):
    text_vectorized = vectorization.transform([filtering(text)])
    prediction = LR.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 fake.

```

from sklearn.tree import DecisionTreeClassifier

```

```

DT = DecisionTreeClassifier()
DT.fit(xv_train, y_train)

```

```

DecisionTreeClassifier()
DecisionTreeClassifier()
DecisionTreeClassifier()
DecisionTreeClassifier()
pred_dt = DT.predict(xv_test)
DT.score(xv_test, y_test)

```

0.5

```
print (classification_report(y_test, pred_lr))
```

	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

```

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: user_input = input("Enter news text: ") result =
predict_news(user_input) print(result)
This news is likely true.

```