In [1]:	import pandas as pd import numpy as np from sklearn.metrics import classification_report import re
In [2]:	<pre>import re import string df_fake = pd.read_csv("Fake.csv") df_true = pd.read_csv("True.csv")</pre>
<pre>In [3]: Out[3]:</pre>	df_fake . head() title text subject date Donald Trump Sends Out Embarrassing New Year' Donald Trump just couldn t wish all Americans News December 31, 2017 Drunk Bragging Trump Staffer Started Russian House Intelligence Committee Chairman Devin Nu News December 31, 2017 Sheriff David Clarke Becomes An Internet Joke On Friday, it was revealed that former Milwauk News December 30, 2017 Trump Is So Obsessed He Even Has Obama's Name On Christmas day, Donald Trump announced that News December 29, 2017 Pope Francis Just Called Out Donald Trump Dur Pope Francis used his annual Christmas Day mes News December 25, 2017
In [4]: Out[4]:	df_true.head(10) title text subject date As U.S. budget fight looms, Republicans flip t WASHINGTON (Reuters) - The head of a conservat politicsNews December 31, 2017 U.S. military to accept transgender recruits o WASHINGTON (Reuters) - Transgender people will politicsNews December 29, 2017
	Senior U.S. Republican senator: 'Let Mr. Muell WASHINGTON (Reuters) - The special counsel inv politicsNews December 31, 2017 FBI Russia probe helped by Australian diplomat WASHINGTON (Reuters) - Trump campaign adviser politicsNews December 30, 2017 Trump wants Postal Service to charge 'much mor SEATTLE/WASHINGTON (Reuters) - President Donal politicsNews December 29, 2017 WEST PALM BEACH, Fla./WASHINGTON (Reuters) - T politicsNews December 29, 2017 Trump says Russia probe will be fair, but time WEST PALM BEACH, Fla (Reuters) - President Don politicsNews December 29, 2017 Factbox: Trump on Twitter (Dec 29) - Approval The following statements were posted to the ve politicsNews December 29, 2017 Trump on Twitter (Dec 28) - Global Warming The following statements were posted to the ve politicsNews December 29, 2017
In [6]: In [7]:	9 Alabama official to certify Senator-elect Jone WASHINGTON (Reuters) - Alabama Secretary of St politicsNews December 28, 2017 df_fake["class"] = 0 df_true["class"] = 1
Out[7]:	<pre>df_fake.shape, df_true.shape ((23481, 5), (21417, 5)) df_fake_manual_testing = df_fake.tail(10) for i in range(23480, 23470, -1): df_fake_drap([i], avis=0, inplace=True)</pre>
In [9]:	<pre>df_fake.drop([i], axis=0, inplace=True) df_true_manual_testing = df_true.tail(10) for i in range(21416, 21406, -1): df_true.drop([i], axis=0, inplace=True) df_manual_testing = pd.concat([df_fake_manual_testing, df_true_manual_testing], axis=0) df_manual_testing.to_csv("manual_testing.csv")</pre>
In [10]: Out[10]:	<pre>df_merge = pd.concat([df_fake, df_true], axis=0) df_merge.head(10) title text subject date class</pre>
	0Donald Trump Sends Out Embarrassing New Year'Donald Trump just couldn t wish all AmericansNewsDecember 31, 201701Drunk Bragging Trump Staffer Started RussianHouse Intelligence Committee Chairman Devin NuNewsDecember 31, 201702Sheriff David Clarke Becomes An Internet JokeOn Friday, it was revealed that former MilwaukNewsDecember 30, 201703Trump Is So Obsessed He Even Has Obama's NameOn Christmas day, Donald Trump announced thatNewsDecember 29, 201704Pope Francis Just Called Out Donald Trump DurPope Francis used his annual Christmas Day mesNewsDecember 25, 201705Racist Alabama Cops Brutalize Black Boy WhileThe number of cases of cops brutalizing and kiNewsDecember 25, 201706Fresh Off The Golf Course, Trump Lashes Out ADonald Trump spent a good portion of his day aNewsDecember 23, 201707Trump Said Some INSANELY Racist Stuff InsideIn the wake of yet another court decision thatNewsDecember 22, 201708Former CIA Director Slams Trump Over UN BullyMany people have raised the alarm regarding thNewsDecember 22, 20170
In [11]:	9 WATCH: Brand-New Pro-Trump Ad Features So Muc Just when you might have thought we d get a br News December 21, 2017 0 df = df_merge.drop(["title", "subject", "date"], axis=1) df.head(10)
Out[11]:	text class 0 Donald Trump just couldn't wish all Americans 0 1 House Intelligence Committee Chairman Devin Nu 0 2 On Friday, it was revealed that former Milwauk 0 3 On Christmas day, Donald Trump announced that 0 4 Pope Francis used his annual Christmas Day mes 0 5 The number of cases of cops brutalizing and ki 0 6 Donald Trump spent a good portion of his day a 0 7 In the wake of yet another court decision that 0 8 Many people have raised the alarm regarding th 0 9 Just when you might have thought we d get a br 0
In [13]:	df = df.sample(frac=1) df.head(10) text class 19873 The enthusiasm for Hillary is well underwhelmi 0
	15431 TRUMP SAYS THE BORDER PATROL IS PETRIFIED: 0 15515 There s no need for Barack Obama and Valerie J 0 12729 PARIS (Reuters) - World powers attempted to sh 1 1266 BAGHDAD (Reuters) - Iraqi forces breached on T 1 1557 PHOENIX (Reuters) - Two National Football Leag 1 12993 Spread this EVERYWHERE! 0 1397 A couple of weeks ago, Donald Trump s voter fr 0 1011 WASHINGTON (Reuters) - U.S. Republican preside 1 11093 (Reuters) - U.S. Democratic presidential candi 1
In [14]: Out[14]:	<pre>text 0 class 0 dtype: int64</pre>
In [15]:	<pre>def word_drop(text): text = text.lower() text = re.sub('\[.*?\]', '', text) text = re.sub("\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</pre>
In [17]: Out[17]:	df.head(10) text class 19873 the enthusiasm for hillary is well underwhelmi 0
In [18]:	trump says the border patrol is petrified 0 15515 there s no need for barack obama and valerie j 0 12729 paris reuters world powers attempted to sh 1 2067 baghdad reuters iraqi forces breached on t 1 1557 phoenix reuters two national football leag 1 20903 spread this everywhere 0 897 a couple of weeks ago donald trump s voter fr 0 10111 washington reuters u s republican preside 1 11093 reuters u s democratic presidential candi 1
In [19]: In [21]:	<pre>y = df["class"] x_train, x_test, y_train, y_test = train_test_split(x,y, test_size = 0.25) from sklearn.feature_extraction.text import TfidfVectorizer</pre>
In [22]:	<pre>vectorization = TfidfVectorizer() xv_train = vectorization.fit_transform(x_train) xv_test = vectorization.transform(x_test)</pre>
In [23]: In [24]:	<pre>Logistic Regression from sklearn.linear_model import LogisticRegression LR = LogisticRegression() LR.fit(xv_train, y_train)</pre>
Out[24]: In [25]:	LogisticRegression() LR.score(xv_test, y_test)
Out[25]: In [26]: In [27]:	<pre>0.9862745098039216 pred_LR = LR.predict(xv_test) print(classification_report(y_test, pred_LR))</pre>
	precision recall f1-score support 0 0.99 0.98 0.99 5864 1 0.98 0.99 0.99 5356 accuracy macro avg 0.99 0.99 0.99 11220 weighted avg 0.99 0.99 0.99 11220
In [28]:	weighted avg 0.99 0.99 0.99 11220 Decision Tree classification from sklearn.tree import DecisionTreeClassifier
In [29]: Out[29]: In [30]:	<pre>DT = DecisionTreeClassifier() DT.fit(xv_train, y_train) DecisionTreeClassifier() DT.score(xv_test, y_test)</pre>
Out[30]: In [31]: In [32]:	<pre>0.99545454545455 pred_DT = DT.predict(xv_test)</pre>
1 [02].	<pre>print(classification_report(y_test, pred_DT)) precision recall f1-score</pre>
In [34]:	macro avg 1.00 1.00 1.00 11220 weighted avg 1.00 1.00 1.00 11220 Gradient Boosting Classifier from sklearn.ensemble import GradientBoostingClassifier
In [35]: Out[35]:	<pre>GBC = GradientBoostingClassifier(random_state=0) GBC.fit(xv_train, y_train) GradientBoostingClassifier(random_state=0)</pre>
<pre>In [36]: Out[36]: In [37]:</pre>	<pre>GBC.score(xv_test, y_test) 0.9944741532976827 pred_GBC = GBC.predict(xv_test)</pre>
In [38]:	print(classification_report(y_test, pred_GBC)) precision recall f1-score support 0 1.00 0.99 0.99 5864 1 0.99 1.00 0.99 5356 accuracy macro avg 0.99 0.99 0.99 11220
In [39]:	weighted avg 0.99 0.99 11220 Random Forest Classifier from sklearn.ensemble import RandomForestClassifier
In [40]: Out[40]: In [41]:	<pre>RFC = RandomForestClassifier(random_state=0) RFC.fit(xv_train, y_train) RandomForestClassifier(random_state=0) RFC.score(xv_test, y_test)</pre>
Out[41]: In [42]:	<pre>0.989572192513369 pred_RFC = RFC.predict(xv_test)</pre>
In [43]:	<pre>print(classification_report(y_test, pred_RFC)) precision recall f1-score</pre>
In [56]:	macro avg 0.99 0.99 0.99 11220 weighted avg 0.99 0.99 1220 Manual Testing def output_label(n):
	<pre>if n == 0: return "Fake News" elif n==1: return "Not a Fake News" def manual_testing(news): testing_news = {"text":[news]} new_def_test = pd.DataFrame(testing_news) new_def_test["text"] = new_def_test["text"].apply(word_drop) new_x_test = new_def_test["text"] new_xv_test = vectorization.transform(new_x_test) pred_LR = LR.predict(new_xv_test) pred_DT = DT.predict(new_xv_test) pred_GBC = GBC.predict(new_xv_test) pred_RFC = RFC.predict(new_xv_test)</pre>
In [57]:	<pre>return print("\n\nLR Prediction: {} \nDT Prediction: {} \nGBC Prediction: {} \nRFC Prediction: {}".format(output_label(pred_LR),output_label(pred_DT), output_label(pred_GBC), news = str(input()) manual_testing(news)</pre> Robert Fantina CounterpunchAlthough the United States is still ten months from its next exercise in electoral futility, most polls do not indicate what former Secretary of State Hilary Clinton is most anxious to see: a runaway victory for her candidacy. It is a good sign that, despite the fact that she has no real contrasting opponent on the Democratic sid
	e, the coronation she expected isn t going to happen. One might say that this writer focuses too much on Mrs. Clinton s adoration of Israel. But by looking at her comments about that t apartheid nation, one gets a clear view of some broader, very troubling perspectives that Mrs. Clinton seems to hold. On January 6, an opinion piece appeared in The Jewish Journa 1, written by Mrs. Clinton. It is a fawning, maudlin essay, typical of the writing of anyone seeking national political office in the U.S. who knows they must pay homage to their I sraeli lord and master. A few points from this essay tell much about Mrs. Clinton. I m especially concerned about the new wave of violence inside Israel itself brutal stabbings, shootings, and vehicle attacks that seek to sow fear among the innocent. The number of Palestinians killed in the West Bank alone by settler and IOF (Israel Occupation Force) terrorists is at a ten-year high. Why is Mrs. Clinton not especially concerned about the continuing wave of violence against Palestinians, in an area that even the U.S. says Israel occupies illegally? Do not these vicious attacks seek to sow fear among the innocent? Only a two-state solution negotiated between the parties can provide Palestinians independence, sovereignty, and dignity, and provide Israelis the secure and recognized borders of a democratic Jewish state. Why, oh why, does Mrs. Clinton continue to make this ridiculous st
	atement? The borders of the Jewish state are recognized by most of the world, including the United Nations, and consist of those determined prior to 1967. There is nothing to negotiate. Does Mrs. Clinton disdain international law? It appears that she feels Israel, like the U.S. in its international dealings, is, indeed, above the law. BIBI FIRST: Hillary Clinton will never tell Israel no. And this writer must point out, once again, that negotiations, which have proceeded on and off for twenty years or so, can only be effective when each side wants something the other has, that it can only obtain by surrendering something it has. Israel wants all of Palestine, and takes it, piece by piece, with complete impunity. Why should Palestine agree to pointless negotiations?Mrs. Clinton refers to the secure and recognized borders of a Jewish state, but does not seem to consider the secure and recognized borders of a Palestinian state. We must continue to fight against global efforts to delegitimize Israel. The Boycott, Divestment, and Sanctions movement, known as BDS, is the latest front in this battle. BDS demonizes Israeli scientists and intellectuals even young students and compares Israel to South African apartheid. That swrong and this can make all of the most significant efforts to delegitimize Israel are made by Israel itself. Its racist society, wherein Israeli Jews have more rights than anyone else in Israel; its apartheid system of segregation; its complete disdain for the human rights of the Palestinians; the racist, murderous statements made by government officials all further delegitimize the country, and demonize it, and rightly so. Israel is often compared to South African apartheid, and the comparison is valid.And it is not just in the context of Palestine and Israel that Mrs. Clinton demonstrates either gross ignorance, or gross dishonesty. Her essay also contained these pearls of wisdom: We must work with our friends and part ers to dehy ISIS territory in the Middle East, dismantle the global infrastruc
In [58]:	LR Prediction: Fake News DT Prediction: Fake News GBC Prediction: Fake News RFC Prediction: Fake News news = str(input())
	GENEVA (Reuters) - North Korea and the United States clashed at a U.N. forum on Tuesday over their military intentions towards one another, with Pyongyang s envoy declaring it would never put its nuclear deterrent on the negotiating table. Japan, well within reach of North Korea s missiles, said the world must maintain pressure on the reclusive country to rein in its nuclear and missile programs and now was not the time for a resumption of multi-party talks. North Korea has pursued its weapons programs in defiance of U.N. Security Council sanctions and ignored all calls, including from major ally China, to stop, prompting a bellicose exchange of rhetoric between the North and the United States. North Korea justifies its weapons programs, including its recent threat to fire missiles towards the U.S. Pacific territory of Guam, by pointing to perceived U.S. hostility, such as military exercises with South Korea this week. U.S. disarmament ambassador Robert Wood told a U.Nsponsored Conference on Disarmament in Geneva U.S. President Donald Trump s top priority was
	to protect the United States and its allies against the growing threat from North Korea and America was ready to use the full range of capabilities at its disposal. The path to dialogue still remained an option for Pyongyang and it had the choice between poverty and belligerence on the one hand and prosperity and acceptance. North Korea s envoy told the same forum the North's nuclear deterrent would never be up for negotiation, echoing Pyongyang's regular denunciation of U.S. aggression. The measures taken by the DPRK to strengthen its nuclear deterrence and develop inter-continental rockets is justifiable and a legitimate option for self-defense in the face of such apparent and real threats, diplomated Ju Yong Chol told the forum, referring to constant nuclear threats by the United States. DPRK stands for the North's official name, the Democratic People's Republic of Korea. Regarding joint U.SSouth Korean military exercises that began on Monday, he warned: The ongoing military adventure would certainly add gasoline to the fire, driving the current terms se situation to further deterioration. Japanese Foreign Minister Taro Kono said pressure must be maintained until the North demonstrated it would give up its nuclear program. It is not the time to discuss (the resumption of) six-party talks, Kono said, referring to stalled negotiations involving both Koreas, the United States, Russia, China and Japan. It is time to exert pressure, he told reporters. The head of the U.S. military is Pacific Command said diplomacy was key. Admiral Harry Harris was in South Korea to observe annual join
	s time to exert pressure, he told reporters. The head of the U.S. military s Pacific Command said diplomacy was key. Admiral Harry Harris was in South Korea to observe annual joint military drills with the South Korean military, which the North called a step towards nuclear conflict masterminded by war maniacs. So we hope and we work for diplomatic solutions to the challenge presented by Kim Jong Un, Harris told reporters at a U.S. air base in Osan, about an hour from Seoul, referring to the North Korean leader. He said diplomacy was the most important starting point in response to the North s threat, when asked what actions by North Korea might trigger a preemptive U.S. strike against it. As far as a timeline, it would be crazy for me to share with you those tripwires in advance. If we did that, it would hardly be a military strategy, he said. The United States and South Korea egan the long-planned exercises on Monday, called the Ulchi Freedom Guardian, which the allies have said are purely defensive. The drills involve tens of thousands of troops as we las computer simulations designed to prepare for war with a nuclear-capable North Korea. The United States and South Korea are technically still at war with the North because their 1950-53 conflict ended in a truce, not a peace treaty. Delegations from about 20 countries spoke at the four-hour U.N. session, including Britain, France, Australia and South Korea, all of which criticized North Korea. I would like to repeat the appeal to the DPRK to listen to the fact that there is no alternative to stopping the different provocations and to return to dialogue, South Korean ambassador Kim Inchul said. We have never threatened the DPRK with any attacks and we have never promoted the use of force. LR Prediction: Not a Fake News GBC Prediction: Not a Fake News
In []:	GBC Prediction: Not a Fake News RFC Prediction: Not a Fake News