

Fake News Faux Real :

Unit Testing

Module 1:

Code (Module):

```
import pyrebase
from flask import (
    Flask,
    flash,
    redirect,
    render_template,
    request,
    session,
    abort,
    url_for,
)

from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import PassiveAggressiveClassifier
import pickle
import pandas as pd
from sklearn.model_selection import train_test_split
import pyrebase
import Scraper

tfvect = TfidfVectorizer(stop_words="english", max_df=0.7)
loaded_model = pickle.load(open("Group24_IT314_Lab4-master/model.pkl",
"rb"))
dataframe = pd.read_csv("Group24_IT314_Lab4-master/news.csv")
x = dataframe["text"]
y = dataframe["label"]
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2,
random_state=0)
```

```

class fakeNewsDetection:
    def fake_news_det(news):
        tfidf_x_train = tfvect.fit_transform(x_train)
        tfidf_x_test = tfvect.transform(x_test)
        input_data = [news]
        vectorized_input_data = tfvect.transform(input_data)
        prediction = loaded_model.predict(vectorized_input_data)
        return prediction

```

Code (For Testing):

```

import unittest

from module1 import fakeNewsDetection

class testFakeNews(unittest.TestCase):

    def testNews(self):
        input_text = "Please provide the news article or story that you would like to verify."

        if input_text.isdigit():
            print("Input is invalid\n Enter alphabets")
            return
        elif len(input_text) < 600:
            print("Invalid input. Enter at least 600 characters")
            return

        self.assertEqual(fakeNewsDetection.fake_news_det(input_text), "REAL", "The news is infact - FAKE")

        self.assertEqual(fakeNewsDetection.fake_news_det(input_text), "FAKE", "The news is infact - REAL")

if __name__ == '__main__':
    unittest.main()

```

Prediction Output

Input: Real News

Sparks flew at the toughest and liveliest GOP primary debate yet Saturday night, as Donald Trump and Jeb Bush clashed over the Middle East and George W. Bush's legacy, trading insults at a rapid clip and the two Cuban-American senators in the race accused each other of lying on immigration and even questioned each other's Spanish-speaking skills. And just when it seemed Trump and Ted Cruz might steer clear of each other, the two leading Republican candidates entered the ring toward the end of the debate when the Texas senator questioned the billionaire businessman's pro-life credentials. "You are the single biggest liar. You're probably worse than Jeb Bush," Trump said. Cruz stood his ground, charging that Trump would "appoint liberals" to the Supreme Court if elected. The issue of judicial appointments was front and center at the CBS News-hosted debate in Greenville, S.C., in the wake of Justice Antonin Scalia's death, with candidates like Cruz saying it underscores the high stakes in this election. Several candidates called for a delay in any high court appointment or confirmation. But the barbed and often personal exchanges Saturday marked a new phase of the race, as the candidates charge into next week's critical South Carolina primary. The clashes left Ohio Gov. John Kasich "the affable, second-place finisher in the New Hampshire primary" making an appeal for peace in the GOP field, albeit one unlikely to be heeded. "I think we're fixing to lose the election to Hillary Clinton if we don't stop this," Kasich said. Retired neurosurgeon Ben Carson, too, warned about the coming general election and said, "We cannot be tearing each other down." The appeals came shortly after Cruz and Florida Sen. Marco Rubio accused each other of being soft on illegal immigration. It's an argument they've had before "Cruz faults Rubio for backing a comprehensive immigration reform bill that included a path to legal status, and Rubio says Cruz was on board with that effort" but this time, it became more heated.

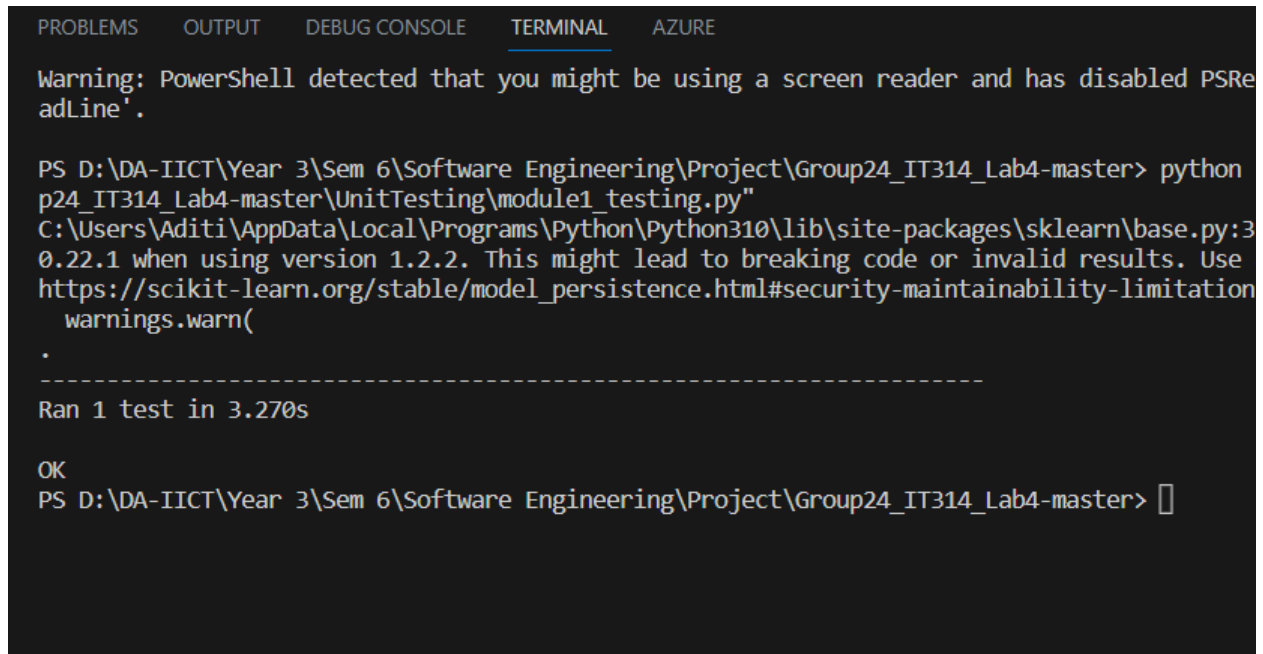
And after Cruz accused Rubio of saying on Univision he wouldn't rescind President Obama's immigration executive orders on day one, Rubio quipped: "I don't know how he knows what I said on Univision because he doesn't speak Spanish," Rubio said. Cruz, then, immediately began debating Rubio in Spanish. Rubio continued, saying Cruz "lies about all sorts of things" and indeed supports legalizing illegal immigrants. As the Rubio-Cruz battle heated up, so did the long-simmering feud between Trump and Bush. "This is a man who insults his way to the nomination," Bush said of Trump. With Bush attempting a comeback in the race after a fourth-place finish in New Hampshire, Trump faced a feistier debate rival on stage Saturday night than he has before "boosted in part by what seemed to be a sympathetic audience. The audience often booed Trump when he took on Bush, though Trump once again accused them of representing Bush's "special interests and lobbyists." Their most personal dispute came when Trump accused Bush of promoting a policy that would get the U.S. mired more deeply in the Middle East "and blamed the former Florida governor's brother for the problems there. Trump initially took issue with Jeb Bush's call to confront ISIS while also taking on Syria's Bashar Assad and sidelining Russia. "Jeb is so wrong," Trump said. "You have to knock out ISIS. You decide what you have to do after. You can't fight two wars at one time." Bush, though, said Russia is not a U.S. ally, and Assad's hold on power prevents a resolution in the war. Trump then went on to repeatedly slam the decision under the George W. Bush administration to enter Iraq in the first place, calling it a "big fat mistake" that "destabilized the Middle East." "They lied" about WMDs, he said. "I am sick and tired of him going after my family," Jeb Bush countered, saying he's proud of his brother's efforts to keep the country safe. Trump then invoked 9/11: "The World Trade Center came down & that's not keeping us safe." Rubio, who has often been at odds with Bush, leapt to his brother's defense, saying the Bush administration "kept us safe." Jeb Bush joked that he was rescinding Trump's invitation to an upcoming rally with George W. Bush on the campaign trail. The fireworks flew after the debate started on a somber note, discussing the legacy of Supreme Court Justice Scalia and the impact his death Saturday will have. Several candidates urged

President Obama to refrain from nominating anybody to fill the vacancy, and wait for the next president to make that decision. Trump, though, said he doesn't expect Obama to wait, and called on Senate Republicans to hold up any nomination. Kasich urged Obama to put the "country first" and not move forward with a nomination, a plea echoed by Rubio. Obama, though, said minutes before the start of the debate that he indeed plans to nominate a successor. The GOP candidates, meanwhile, used opening remarks to honor Scalia's legacy. Cruz called him a "legal giant" who "changed the arc of American legal history." He said Scalia's death also "underscores the stakes of this election." "We are one justice away from a Supreme Court that will strike down every restriction on abortion by states, threaten gun rights and undermine religious liberty," Cruz said. He said he would appoint a strict constitutionalist if elected. Scalia's death thrusts the issue of judicial appointments into the 2016 race, raising the possibility that the next president immediately will have to fill a high court vacancy. While Obama vowed Saturday to nominate a successor, it's unclear whether he can get any appointee confirmed in the Republican-led Senate. While the prospect of a Supreme Court vacancy now looms over the race, the South Carolina primary already was heating up on several fronts in recent days, with the candidates trading accusations on immigration and other issues. The debate Saturday reflects that tougher tone, in a state notorious for bare-knuckle primary battles. Trump at one point accused Cruz of trying to spread rumors in the state that he's not running in South Carolina "likening that to his campaign's actions in Iowa, where representatives spread false rumors that Carson was dropping out. "Nasty guy, now I know why he doesn't have one endorsement from any of his colleagues," Trump said. Even Kasich struggled to avoid the fray, as Bush criticized him for expanding Medicaid under ObamaCare and said that would create more debt. "He knows that I'm not for ObamaCare," Kasich said, before vowing to stay "positive." "The GOP field is now down to six candidates -- after New Jersey Gov. Chris Christie and former Hewlett Packard chief executive Carly Fiorina dropped out following low finishes Tuesday in the New Hampshire primary. A big question Saturday night, and going forward, was whether Rubio could regain his momentum " following last weekend's

lackluster performance. A withering attack by Christie on Rubio, which had the Florida senator repeating himself, appeared to hurt him in the New Hampshire primary. Rubio himself blamed his debate performance in part for his fifth-place finish in the state. He finished behind Trump, Kasich, Cruz and Bush. Christie, though, is no longer on stage or in the race. Most polling in South Carolina still shows Rubio third, with Trump and Cruz in the top two positions, respectively.

Expected Output: No Error (Real News)

Actual Output: No Error



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python p24_IT314_Lab4-master\UnitTesting\module1_testing.py
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:30:22:1 when using version 1.2.2. This might lead to breaking code or invalid results. Use https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitation
  warnings.warn(
.
-----
Ran 1 test in 3.270s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: Same as above

Expected Output: Fake

Actual Output: Error is displayed (Since news is real)

```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: sklearn 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
F
=====
FAIL: testNews (_main_.testFakeNews)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\module1_testing.py", line 10, in testFakeNews
    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"FAKE","The news is infact - REAL")
AssertionError: array(['REAL'], dtype='<U4') != 'FAKE' : The news is infact - REAL
-----
Ran 1 test in 3.301s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> █
```

Input: Real News

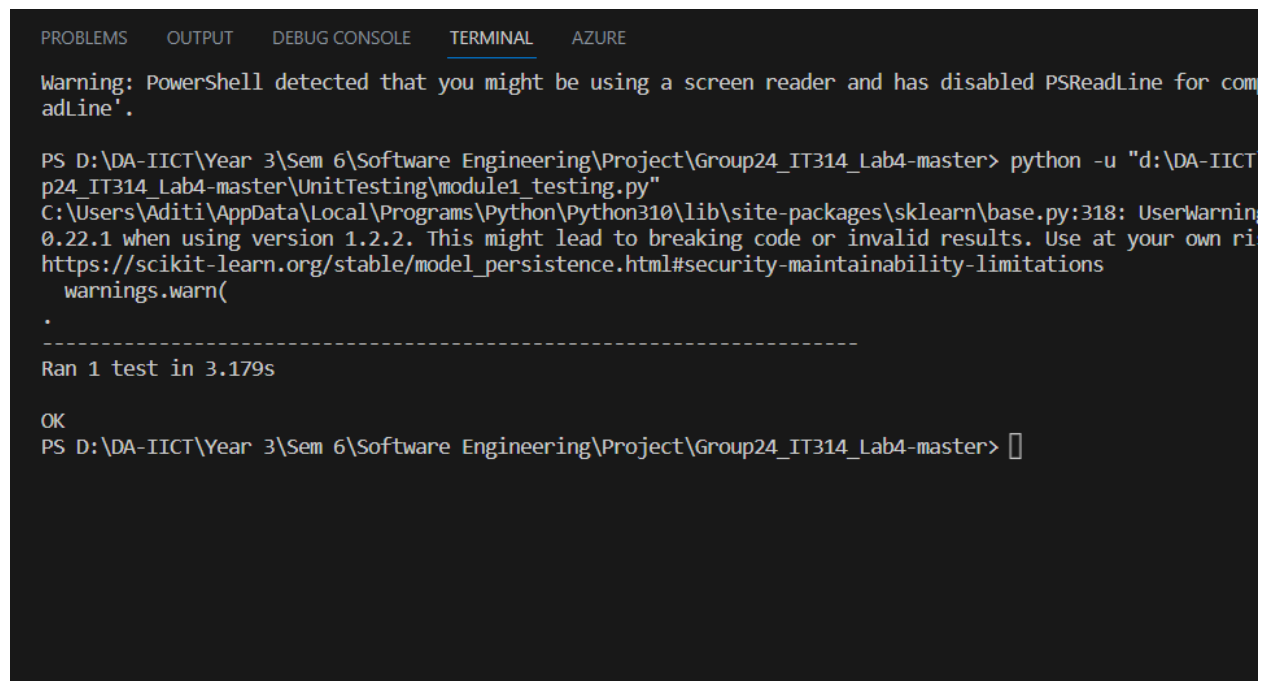
(CNN) On Veterans Day we recognize and honor the sacrifices our service members and their families make for our country. We owe our service members the very best, but unless Congress acts, on January 1 more than 9 million veterans who rely on Social Security benefits or pension and compensation benefits will not get their annual cost of living increase. This freeze in funds, which has happened only two other times since 1975, will be really tough on veterans among the 71 million Americans who depend on Social Security and other benefits to help make ends meet. Two-thirds of seniors depend on Social Security for the majority of their income, and for 15 million Americans, Social Security is all that stands between them and poverty. While vets and seniors get no raise, CEOs at the top 350 American companies received, on average, a 3.9% pay increase last year. That's a lot of money. The average CEO at one of the top 350 American companies made \$16.3 million and got more than half a million in pay raises. So CEOs get huge raises, while seniors, veterans and others who've worked hard don't get an extra dime. Why? It's not an accident. It's not inevitable. It's the result of deliberate policies set by Congress. Social Security is supposed to be indexed to inflation

so that when prices go up, benefits go up, too. But Congress' formula samples the spending patterns of about a quarter of the country, and the formula isn't geared to what older Americans actually spend. Projections for the costs of core goods and services show inflation is up about 2%, but seniors won't get a cost of living increase -- mostly because of falling gasoline prices, which don't mean as much to millions of seniors who don't commute to work. So seniors, who are already struggling to scrape by to cover rent and exploding prescription drug prices, will be left scrambling. Sure, companies should make their own decisions about how much to compensate executives, but because of the laws Congress has passed, American taxpayers are forced to subsidize these multimillion-dollar pay packages. It's time for Congress to make different choices. That's why last week I introduced the Seniors And Veterans Emergency (SAVE) Benefits Act. The SAVE Benefits Act will give seniors on Social Security, veterans, those with disabilities and others a one-time payment in 2016 equivalent to an average increase of 3.9% -- the same as the taxpayer-subsidized raise that CEOs received last year. We can afford to give seniors and vets a raise. In fact, we can increase pay for seniors and vets without adding a single penny to the deficit simply by closing the bonus loophole for corporate executives. According to the chief actuary of the Social Security Administration, closing this loophole will create enough revenue to help millions of Americans and still have enough left over to help extend the life of the Social Security trust fund. Seniors and vets would get an increase of about \$581 next year -- a little less than \$50 a month. That \$581 increase would cover almost three months of groceries for seniors or a year's worth of out-of-pocket costs on critical prescription drugs for the average Medicare beneficiary. That \$50 a month is worth a lot to those 71 million Americans. According to an analysis from the Economic Policy Institute, that little boost could lift more than 1 million Americans out of poverty. Giving vets and seniors a little help and stitching up these corporate tax write-offs isn't just about economics; it's about our values. For too long, we've listened to a handful of people with money and power who say: Cut taxes for those at the top, cut rules and regulations that keep everyone honest, and let everyone else fight over the scraps. We tried trickle-down economics, and it failed. But we can make different choices -- choices that reflect our values. We don't have to

ignore this problem. We can give a small boost to 71 million Americans who have earned it and who need it. We can lift over 1 million people out of poverty. We can extend the life of Social Security. And we can do it by shutting down taxpayer giveaways to a handful of wealthy corporations that will do fine without them. For me, this is simple. Our spending should reflect our values, and that means passing the SAVE Benefits Act.

Expected Output: Real

Actual Output: No Error



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for com
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarnin
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own ri
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
    warnings.warn(
.
-----
Ran 1 test in 3.179s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: Same as above

Expected Output: Fake

Actual Output: Error is displayed (Since news is real)

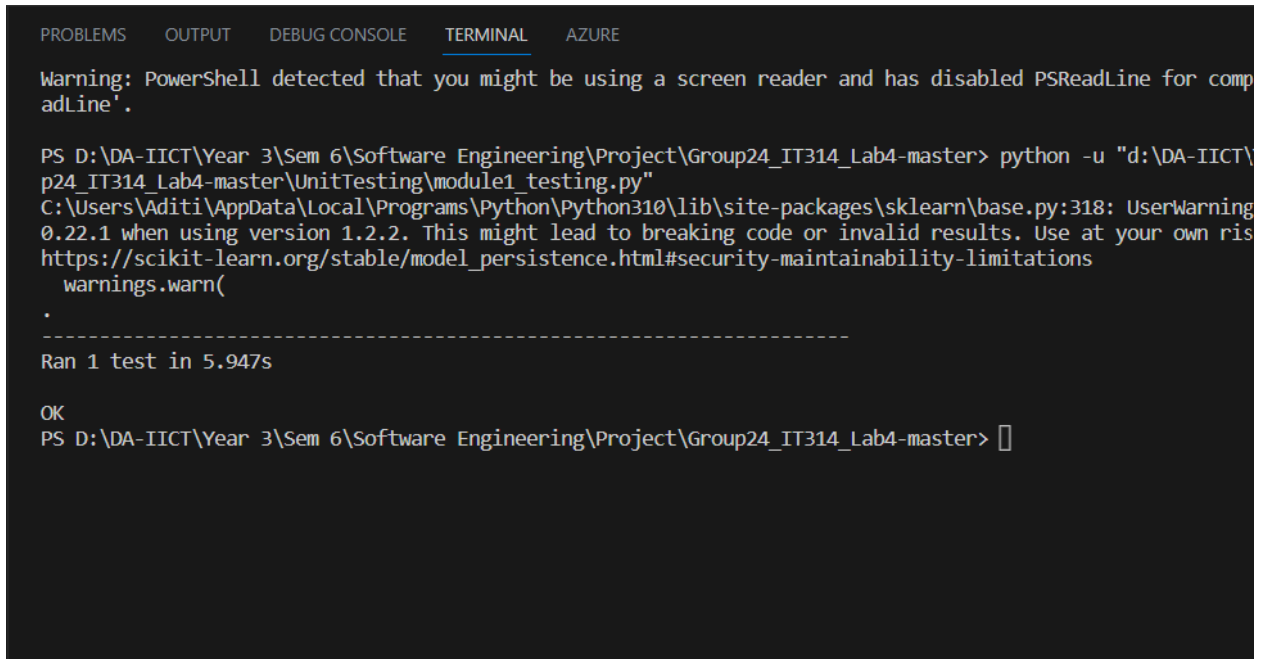
```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for com
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own ri
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
F
=====
FAIL: testNews (__main__.testFakeNews)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab
    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"FAKE","The news is infact - REAL")
AssertionError: array(['REAL'], dtype='<U4') != 'FAKE' : The news is infact - REAL
-----
Ran 1 test in 3.186s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> █
```

Input: Real News

Expected Output: Real News

Actual Output: No Error

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for comp
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own ris
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
    warnings.warn(
.
-----
Ran 1 test in 5.947s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: Same as above

Expected Output: Fake

Actual Output: Error is displayed (Since news is real)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Adivi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning:
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
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FAIL: testNews (__main__.testFakeNews)
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Traceback (most recent call last):
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    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"FAKE","The news is infact - REAL")
AssertionError: array(['REAL'], dtype='<U4') != 'FAKE' : The news is infact - REAL

-----
Ran 1 test in 3.416s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: Fake News

By Dan Zukowski Three major U.S. pipeline spills within the last month are just a small part of the 220 significant incidents reported so far this year—and 3,032 since 2006—that provide a stark reminder of the environmental hazards of an aging pipeline infrastructure carrying fossil fuels. The costs of these leaks since 2006 has amounted to \$4.7 billion.

1. Oklahoma: On Oct. 24, the 30-inch S-1 pipeline carrying crude oil from the critical Cushing, Oklahoma hub to refineries and chemical plants on the Gulf Coast began to leak and was shut down overnight. It was the second release connected with the Cushing storage facility in less than a month.
2. Pennsylvania: On Oct. 21, 55,000 gallons of gasoline gushed from a ruptured Sunoco Logistics pipeline in Williamsport, Pennsylvania, just upstream from the Susquehanna River. Carol Parenzan, Middle Susquehanna Riverkeeper, said that witnesses who contacted her office reported that the “smell of petroleum is so thick you can taste it.” The 80-year old pipeline was damaged by a heavy storm that dumped seven inches of rain on the area.
3. Alabama: Last month, the Colonial Pipeline in Alabama leaked an estimated

336,000 gallons of gasoline and triggered concerns about gas shortages for drivers in the East. That spill was Colonial's fifth in the state this year and occurred on a 43-year old section of the pipeline. Based on data from the Pipeline and Hazardous Materials Safety Administration (PHMSA), an arm of the U.S. Department of Transportation, the number of significant pipeline incidents grew 26.8 percent from 2006 to 2015. A significant incident is defined as one that results in serious injury or fatality, costs more than \$50,000, releases more than five barrels of volatile fluids such as gasoline or 50 barrels of other liquids, or results in a fire or explosion. In 2015, there were 326 such incidents—almost one per day. Some 55 percent of the U.S. network of 135,000 miles of pipeline is more than 45 years old. Technology designed to detect pipeline leaks is highly unreliable, even though companies like Colonial Pipeline tout their use as a way to insure safe operations. But a recent Reuters report found that these technologies are about as successful as a random member of the public finding a leak. Of 466 incidents studied by Reuters, only 22 percent, or 105, were detected by advanced detection systems. The others were found in different ways, with the public finding 99 of the leaks. In testimony before a House subcommittee earlier this year, Carl Weimer, executive director of the watchdog group Pipeline Safety Trust, said, "Under the current statutes there is no requirement that a pipeline company obtain any permit or permission to operate a pipeline in this country." Weimer called on Congress to require PHMSA to issue permits for interstate transmission pipelines and ensure that the company follow all rules and regulations. "It is important that we not only maintain our aging energy infrastructure, but that we also remain vigilant about new pipelines and energy interests that threaten water quality," said Parenzan. Dan Zukowski is an environmental journalist and nature photographer. Member, Society of Environmental Journalists. Follow me on Twitter @DanZukowski and visit DBZ Photo Source: EcoWatch

Expected Output: Fake

Actual Output: No error

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> py
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limit
warnings.warn(
.
-----
Ran 1 test in 3.234s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>
```

Input: Same as above

Expected Output: Real

Actual Output: Error is displayed (Since news is fake)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\unittesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: sklearn 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
F
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FAIL: testNews (__main__.testFakeNews)
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Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\unittesting\module1_testing.py", line 10, in testFakeNews
    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"REAL","The news is infact - FAKE")
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE
-----
Ran 1 test in 3.189s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>

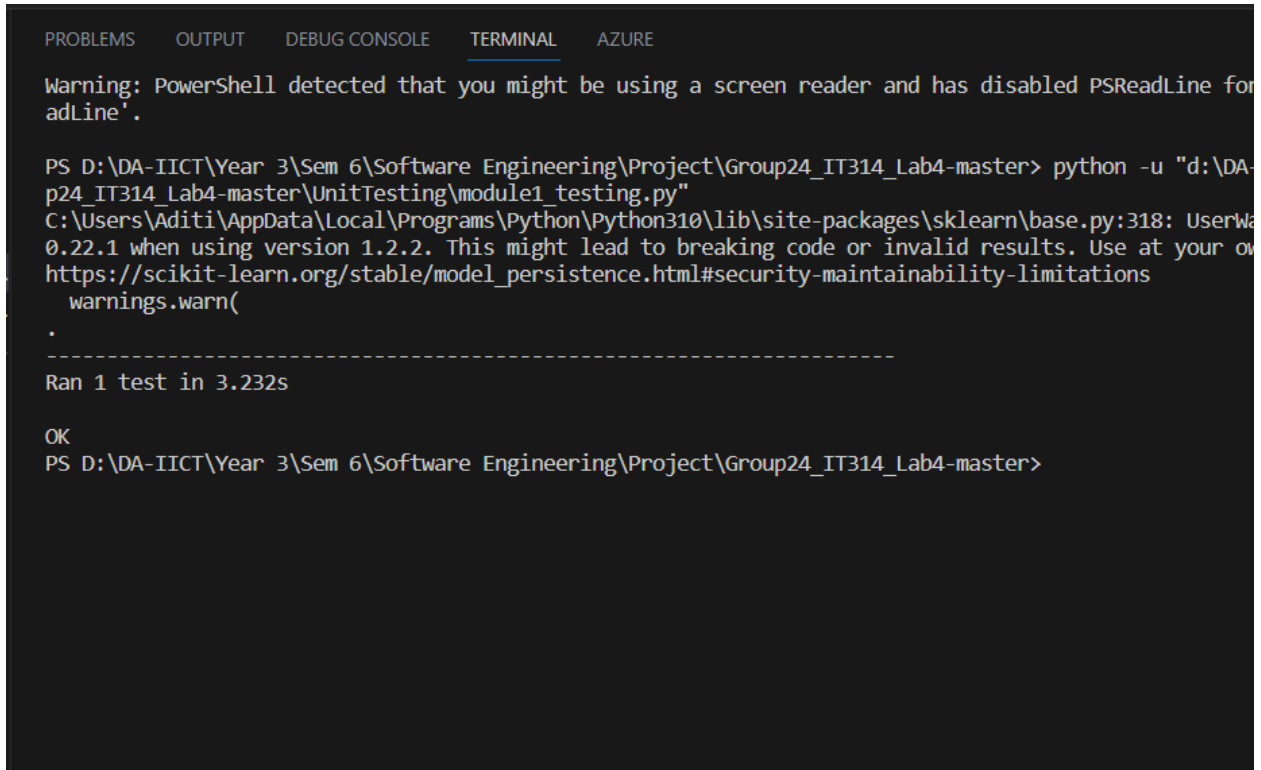
```

Input: Fake News

By INDRA WARNES In a truly shocking twist the Suptreme Court decided the grown Iraqi man may not have realised the 10-year-old did not want to be sexually abused by him. Amir A, 20, was visiting the Theresienbad pool in the Austrian capital of Vienna last December as part of a trip to encourage integration. When the youngster went to the showers, Amir A. allegedly followed him, pushed him into a toilet cubicle, and violently sexually assaulted him. Following the attack, the accused rapist returned to the pool and was practising on the diving board when police arrived, after the 10-year-old raised the alarm with the lifeguard. The child suffered severe anal injuries which had to be treated at a local children's hospital, and is still plagued by serious post-traumatic stress disorder. In a police interview, Amir A. confessed to the crime; telling officers the incident had been "a sexual emergency", as his wife had remained in Iraq and he "had not had sex in four months". A court found Amir guilty of serious sexual assault and rape of a minor, and sentenced him to six years in jail. However, in

Expected Output: Fake

Actual Output: No error



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWa
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your ow
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
.
-----
Ran 1 test in 3.232s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>
```

Input: Same as above

Expected Output: Real

Actual Output: Error is displayed (Since news is fake)


```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for com
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PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT
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C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own ri
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
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=====
FAIL: testNews (__main__.testFakeNews)
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Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab
    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"REAL","The news is infact - FAKE")
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE
-----
Ran 1 test in 3.299s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>

```

Input: Fake News

Anti-Trump Protesters Are Tools of the Oligarchy “Reform always provokes rage on the part of those who profit by the old order.” Arthur M. Schlesinger, Jr., The Crisis of the Old Order By Paul Craig Roberts Who are the anti-Trump protesters besmirching the name of progressives by pretending to be progressives and by refusing to accept the outcome of the presidential election? They look like, and are acting worse than, the “white trash” that they are denouncing. I think I know who they are. They are thugs for hire and are paid by the Oligarchy to delegitimize Trump’s presidency in the way that Washington and the German Marshall Fund paid students in Kiev to protest the democratically elected Ukrainian government in order to prepare the way for a coup. The organization, change.org, which claims to be a progressive group, but might be a front, along with other progressive groups, for the Oligarchy, is destroying the reputation of all progressives by circulating a petition that directs the electors of the Electoral Collage to annul the election by casting their votes for Hillary. Remember how upset progressives were

when Trump said he might not accept the election result if there was evidence that the vote was rigged? Now progressives are doing what they damned Trump for saying he might do under certain conditions. The Western pressstitutes used the protests in Kiev to delegitimize a democratically elected government and to set it up for a coup. The protest pay was good enough that non-Ukrainians came from nearby countries to participate in the protest in order to collect the money. At the time I posted the amounts paid daily to protesters. Reports came in to me from Eastern and Western Europe from people who were not Ukrainian but were paid to protest as if they were Ukrainians. The same thing is going on with the Trump protests. CNN reports that “for many Americans across the country, Donald Trump’s victory is an outcome they simply refuse to accept. Tens of thousands filled the streets in at least 25 US cities overnight.” This is the exact reporting that the Oligarchy desired from its pressstitutes and got. I hope no one thinks that simultaneous protests in 25 cities were a spontaneous event. How did 25 independent protests manage to come up with the same slogans and the same signs on the same night following the election? What is the point of the protests, and what interest is served by them? As the Romans always asked, “who benefits?” There is only one answer: The Oligarchy and only the Oligarchy benefits. Trump is a threat to the Oligarchy, because he intends to stop the giveaway of American jobs to foreigners. The jobs giveaway, sanctified by the neoliberal junk economists as “free trade,” is one of the main reasons for the 21st century worsening of the US income distribution. Money that was formerly paid in middle class wages and salaries to American manufacturing employees and college graduates has been re-routed to the pockets of the One Percent. When US corporations move their production of goods and services sold to Americans offshore to Asian countries, such as China and India, their wage bill falls. The money formerly paid in middle class incomes goes instead into executive bonuses and dividends and capital gains to shareholders. The ladders of upward mobility that had made America the land of opportunity were dismantled for the sole purpose of making a handful of people multi-billionaires. Trump is a threat to the Oligarchy, because he intends peaceful relations with Russia. In order to replace the profitable Soviet Threat, the Oligarchy and their neoconservative agents worked overtime to recreate

the “Russian Threat” by demonizing Russia. Accustomed to many decades of excess profits from the profitable Cold War, the military/security complex was angry when President Reagan brought the Cold War to an end. Before these leeches on American taxpayers could get the Cold War going again, the Soviet Union collapsed as a result of a right-wing coup against Soviet President Mikhail Gorbachev. The military/security complex and their Zionist neoconservative agents cooked up “the war on terror” to keep the money flowing to the One Percent. But as hard as the prostitute media worked to create fear of “the Muslim threat,” even insouciant Americans knew that the Muslims did not have thousands of ICBMs carrying powerful thermo-nuclear weapons capable of destroying the entirety of the United States in a few minutes. Neither did the Muslims have the Red Army capable of overrunning all of Europe in a couple of days. Indeed, the Muslims haven’t needed an army. Refugees from Washington’s wars enabled by Europeans are overrunning Europe. The excuse for the annual trillion dollar (\$1,000 billion) military/security budget was missing. So the Oligarchy created “the New Hitler” in Russia. Hillary was the Oligarchy’s principle agent for heating up the new Cold War. Hillary is the tool, enriched by the Oligarchy, whose job as President was to protect and to increase the trillion dollar budget of the military/security complex. With Hillary in the White House, the looting of the American taxpayers in behalf of the wealth of the One Percent could go forward unimpeded. But if Trump resolves “the Russian threat,” the Oligarchy takes an income hit. Hillary’s job as President was also to privatize Social Security in order that her Wall Street benefactors can rip off Americans the way that Americans have been ripped off by the insurance companies under Obamacare. Those Americans who do not pay attention think, mistakenly, that the FBI cleared Hillary of violating National Security protocols with her email practices. The FBI said that Hillary did violate National Security, but that it was a result of carelessness or ignorance. She got off from indictment, because the FBI concluded that she did not intentionally violate National Security protocols. The investigation of the Clinton Foundation continues. In other words, in order to protect Hillary the FBI fell back on the ancient common law rule that “there can be no crime without intent.” (See PCR and Lawrence Stratton, *The Tyranny of Good Intentions* .) One would

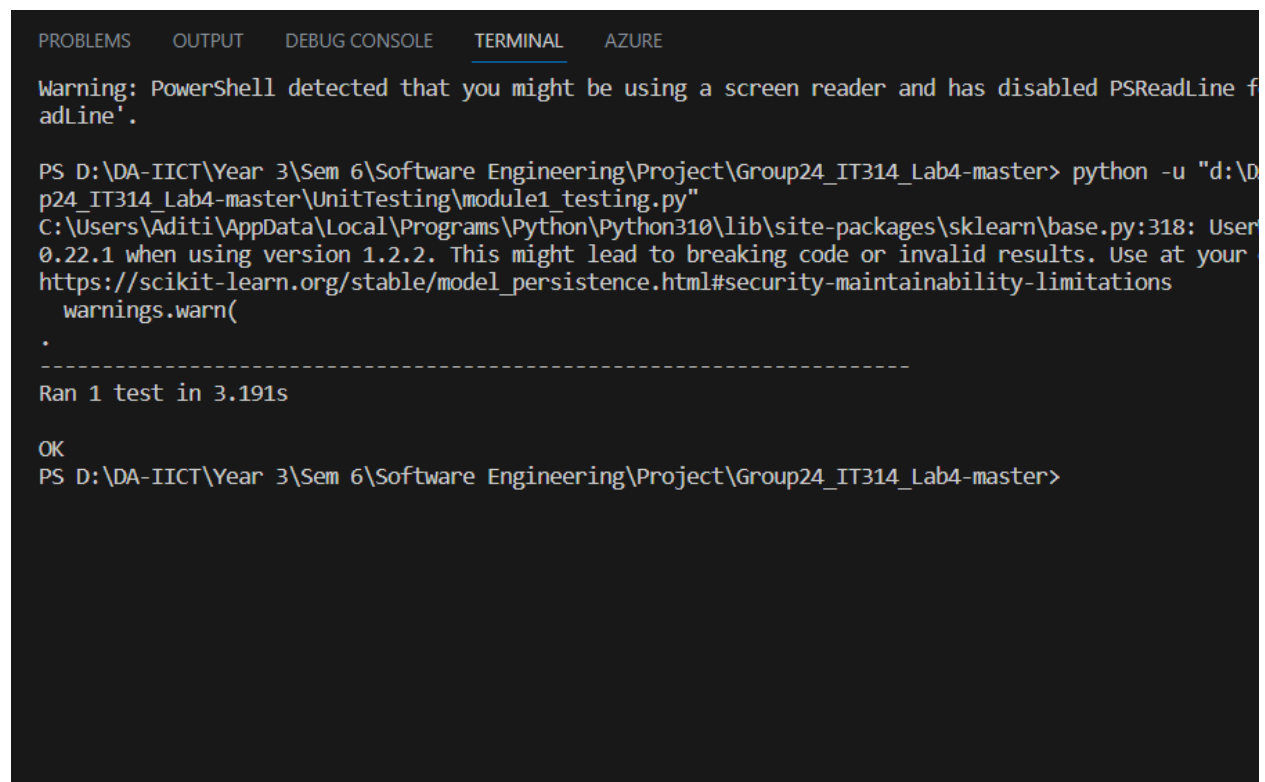
think that protesters, if they were legitimate, would be celebrating Trump's victory. He, unlike Hillary, promises to reduce tensions with powerful Russia, and we hope also with China. Unlike Hillary, Trump says he is concerned with the absence of careers for those very people protesting in the streets of 25 cities against him. In other words, the protests against the American people for electing Trump as their president are pointless. The protests are happening for one reason only. The Oligarchy intends to delegitimize the Trump Presidency. Once President Trump is delegitimized, it will be easier for the Oligarchy to assassinate him. Unless the Oligarchy can appoint and control Trump's government, Trump is a prime candidate for assassination. The protests against Trump are suspicious for another reason. Unlike Hillary, Obama, and George W. Bush, Donald Trump has not slaughtered and dislocated millions of peoples in seven countries, sending millions of refugees from the Oligarchy's wars to overrun Europe. Trump earned his fortune, and if by hook or crook, not by selling US government influence to foreign agents as Bill and Hillary did. So what are the protesters protesting? There is no answer except that they are hired to protest. Just as the Maidan protesters in Kiev were hired to protest by US and German financed NGOs. The protests in Kiev were equally pointless, because presidential elections were only months away. If Ukrainians really believed that their president was conspiring with Russia to keep Ukraine from becoming a Western puppet state and wished to become a puppet state regardless of the costs, the opportunity to vote the government out was at hand. The only reason for the protests was to orchestrate a coup. The US did succeed in putting their agent in control of the new Ukrainian government as Victoria Nuland and the US ambassador in Kiev confirmed in their telephone conversation that is available on the Internet. The Maidan protests were pointless except for making a coup possible. The protests were without any doubt arranged by Washington through Assistant Secretary of State Victoria Nuland, a neoconservative brought into the State Department by Hillary Clinton for the purpose of creating conflict with Russia. Trump is being protested in order to make him vulnerable in the event he proves to be the threat to the Oligarchy that he is thought to be. Trump won the presidency, but the Oligarchy is still in power, which makes any real reforms difficult to achieve. Symbolic reforms can be the product of the

contest between President Trump and the oligarchs. Karl Marx learned from historical experience, and Lenin, Stalin, and Pol Pot learned from Karl Marx, that change cannot occur if the displaced ruling class is left intact after a revolution against them. We have proof of this throughout South America. Every revolution by the indigenous people has left unmolested the Spanish ruling class, and every revolution has been overthrown by collusion between the ruling class and Washington. Washington has conspired with traditional elites to remove the elected presidents of Honduras on a number of occasions. Recently, Washington helped elites evict the female presidents of Argentina and Brazil. The presidents of Venezuela, Ecuador, and Bolivia are in the crosshairs and are unlikely to survive. Washington is determined to get its hands on Julian Assange. To achieve this Washington intends to overthrow the Ecuadoran government that, in defiance of Washington, gave Julian Assange political asylum. Hugo Chavez had the power to exile or to exterminate the Spanish ruling class in Venezuela when the ruling class participated in a CIA coup against Chavez. But before the CIA could kill Chavez, the people and the military forced his release. Instead of punishing the criminals who would have murdered him, Chavez let them go. According to Marx, Lenin, and Stalin, this is the classic mistake of the revolutionary. To rely on good will from the overthrown ruling class is the certain road to the defeat of the revolution. Latin American has proved itself unable to learn this lesson: Revolutions cannot be conciliatory. Trump is a dealmaker. The Oligarchy can permit him the sheen of success in exchange for no real change. Trump is not perfect. He might fail on his own. But we should back him on the two most important elements in his program: to reduce tensions between the major nuclear powers, and to halt Washington's policy of permitting globalism to destroy Americans' economic prospects. If tensions between nuclear powers worsen, we won't be here to worry about other problems. The combination of the economy hollowed out by globalism and immigration is an economic nightmare. That Trump understands this is reason to support him. Note: Some believe that Trump is a ruse conducted by the Oligarchy. However, as Hillary is the bought-and-paid-for representative of the Oligarchy, such an elaborate ruse is unnecessary. It is preferable for the Oligarchy to win on its own platform than to install a president on the opposite platform and then change

him around. Another sellout increases the anger of the people. If Hillary had won, the Oligarchy would have had the voters' mandate for their platform. Dr. Paul Craig Roberts was Assistant Secretary of the Treasury for Economic Policy and associate editor of the Wall Street Journal. He was columnist for Business Week, Scripps Howard News Service, and Creators Syndicate. He has had many university appointments. His internet columns have attracted a worldwide following. Roberts' latest books are The Failure of Laissez Faire Capitalism and Economic Dissolution of the West , How America Was Lost , and The Neoconservative Threat to World Order .

Expected Output: Fake

Actual Output: No error



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine f
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\D
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: User
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
    warnings.warn(
.
-----
Ran 1 test in 3.191s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>
```

Input: Same as above

Expected Output: Real

Actual Output: Error is displayed (Since news is fake)

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Test results may be unstable. Please upgrade to sklearn 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
  warnings.warn(
F
=====
FAIL: testNews (__main__.testFakeNews)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\module1_testing.py", line 10, in testFakeNews
    self.assertEqual(fakeNewsDetection.fake_news_det(input_text),"REAL","The news is infact - FAKE")
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE

-----
Ran 1 test in 3.219s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>

```

Input: Invalid data

[illegible]

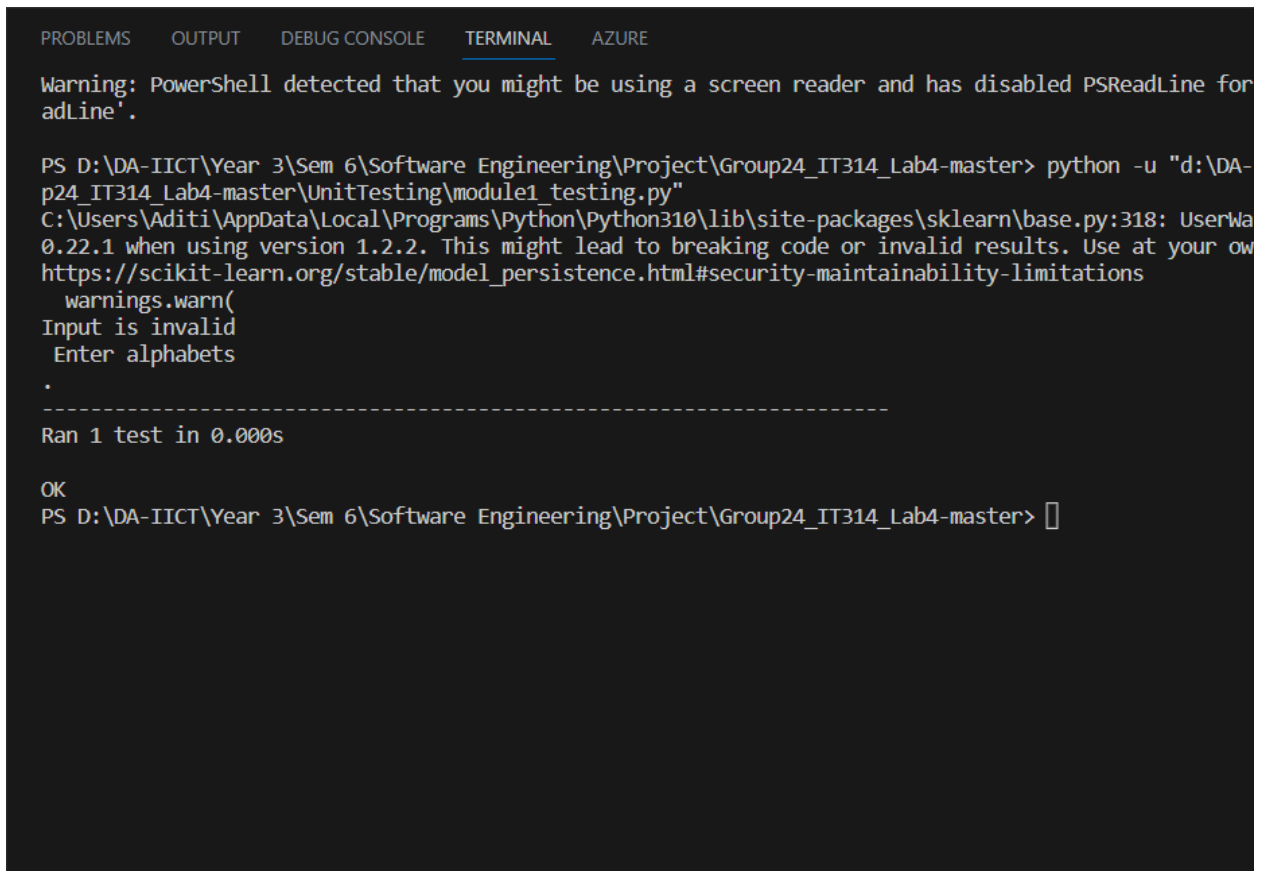
```

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891012345678910123456789101234567891012345678910123456789101234
567891012345678910123456789101234567891012345678910123456789101
2

```

Expected Output: Invalid input

Actual Output: Asks user to enter valid data



```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-
p24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWa
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your ow
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Input is invalid
Enter alphabets
.
-----
Ran 1 test in 0.000s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

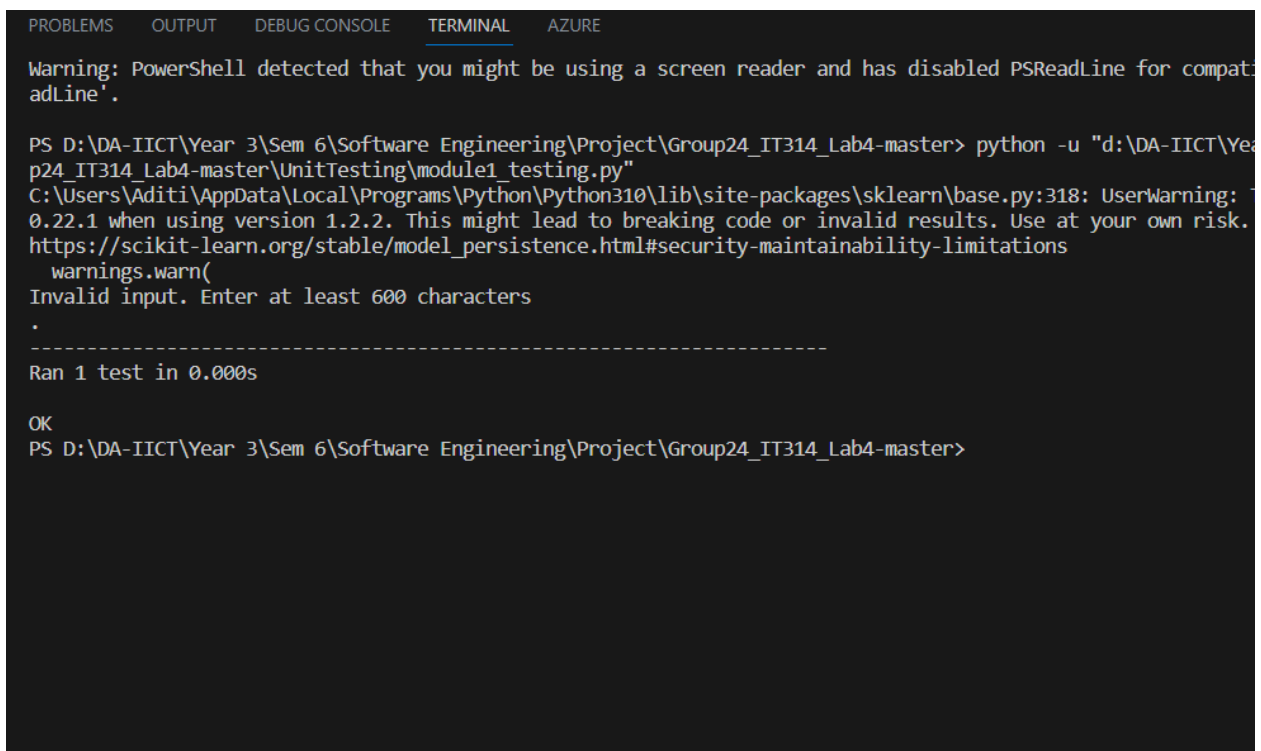
```


Input: Invalid data

Donald Trump will be the 45th president of the United States,” said the Fox News anchor, detonating an explosion of cheers from the crowd, “winning the most unreal, surreal election we have ever seen”

Expected Output: Invalid input

Actual Output: Asks user to enter valid data with more than 600 characters



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module1_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: sklearn 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Invalid input. Enter at least 600 characters
.
-----
Ran 1 test in 0.000s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>
```

Module 2:

Code (Module):

```
import pyrebase
from flask import (
    Flask,
    flash,
    redirect,
    render_template,
    request,
    session,
    abort,
    url_for,
)

from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import PassiveAggressiveClassifier
import pickle
import pandas as pd
from sklearn.model_selection import train_test_split
import pyrebase
from Scraper import *

tfvect = TfidfVectorizer(stop_words="english", max_df=0.7)
loaded_model = pickle.load(open("Group24_IT314_Lab4-master/model.pkl",
"rb"))
dataframe = pd.read_csv("Group24_IT314_Lab4-master/news.csv")
x = dataframe["text"]
y = dataframe["label"]
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2,
random_state=0)

class fakeNewsDetection2:
    def fake_news_det(news):
        tfidf_x_train = tfvect.fit_transform(x_train)
        tfidf_x_test = tfvect.transform(x_test)
```

```

input_data = [news]
vectorized_input_data = tfvect.transform(input_data)
prediction = loaded_model.predict(vectorized_input_data)
return prediction

```

Code (For Testing):

```

import unittest
from Scraper import *
from module2 import fakeNewsDetection2

class testFakeNews2(unittest.TestCase):

    def testNews2(self):

        #newsPaperName = 1 #for Times Of India
        #newsPaperName = 2 #for The Hindu
        #newsPaperName = 3 #for The Guardian

        newsPaperName = input("Please enter option number to select a
newspaper from the following:\n1. The Times Of India\n2. The Hindu\n3. The
Guardian\n")

        #print(newsPaperName + "\n")
        input_url = input("Please enter the URL you want to test\n")
        #print(input_url + "\n")

        if newsPaperName == "1":
            if input_url.startswith("https://www.thehindu.com") == True or
input_url.startswith("https://www.theguardian.com") == True:
                print("Choose correct newspaper")
            elif
input_url.startswith("https://timesofindia.indiatimes.com") == False:
                print("Input Valid URL")
            else:

self.assertEqual(fakeNewsDetection2.fake_news_det(timesOfIndiaScraper(inpu
t_url)), "REAL", "The news is infact - FAKE")

```

```

self.assertEqual(fakeNewsDetection2.fake_news_det(timesOfIndiaScraper(input_url)), "FAKE", "The news is infact - REAL")

    elif newsPaperName == "2":
        if input_url.startswith("https://timesofindia.indiatimes.com")
== True or input_url.startswith("https://www.theguardian.com") == True:
            print("Choose correct newspaper")
            elif input_url.startswith("https://www.thehindu.com") ==
False:
                print("Input Valid URL")
            else:

self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraper(input_url)), "REAL", "The news is infact - FAKE")

self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraper(input_url)), "FAKE", "The news is infact - REAL")

    elif newsPaperName == "3":
        if input_url.startswith("https://timesofindia.indiatimes.com")
== True or input_url.startswith("https://www.thehindu.com") == True:
            print("Choose correct newspaper")
            elif input_url.startswith("https://www.theguardian.com") ==
False:
                print("Input Valid URL")
            else:

self.assertEqual(fakeNewsDetection2.fake_news_det(theguardianscraper(input_url)), "REAL", "The news is infact - FAKE")

self.assertEqual(fakeNewsDetection2.fake_news_det(theguardianscraper(input_url)), "FAKE", "The news is infact - REAL")

    else:
        print("You have selected an invalid option")

if __name__ == '__main__':
    unittest.main()

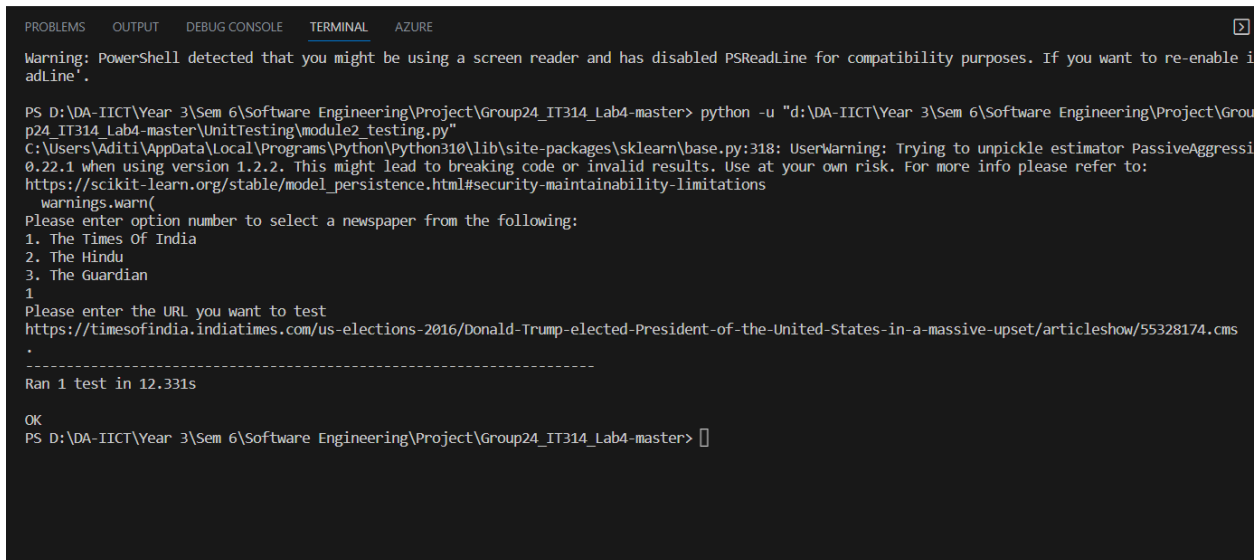
```

Input: (Real URL)

<https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-in-a-massive-upset/articleshow/55328174.cms>

Expected Output: Real

Actual Output: Test Case Passes (as news is real)



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable i
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Grou
p24_IT314_Lab4-master\unittesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle estimator PassiveAggressi
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
1
Please enter the URL you want to test
https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-in-a-massive-upset/articleshow/55328174.cms
.
-----
Ran 1 test in 12.331s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master>

```

Input: (Real URL)

<https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-in-a-massive-upset/articleshow/55328174.cms>

Expected Output: Fake

Actual Output: Failure is displayed as the news is real

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning:
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
1
Please enter the URL you want to test
https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-2016-11-09/
F
=====
FAIL: testNews2 (__main__.testFakeNews2)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(timesOfIndiaScraper(input_url)), "FAKE", "The news is fake - REAL")
AssertionError: array(['REAL'], dtype='<U4') != 'FAKE' : The news is infact - REAL

-----
Ran 1 test in 11.165s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: (Fake URL)

https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-lost-to-Hilary

Expected Output: Error

Actual Output: Error occurred (as link does not exist)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aaditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle e
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info pleas
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
1
Please enter the URL you want to test
https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-lost-to-Hilary
E
=====
ERROR: testNews2 (_main_.testFakeNews2)
=====
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\mo
    self.assertEqual(fakeNewsDetection2.fake_news_det(timesOfIndiaScraper(input_url)), "REAL", "The news is infact - FAKE")
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\Sc
    main_text = soup.find('div',class_ = "s30J clearfix").text
AttributeError: 'NoneType' object has no attribute 'text'

=====
Ran 1 test in 26.392s

FAILED (errors=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: Trying a Guardian URL for Times Of India newspaper

Expected Output: Exit from code

Actual Output: Error message displayed

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Astiti\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning:
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
1
Please enter the URL you want to test
https://www.theguardian.com/us-news/2016/nov/09/how-did-donald-trump-win-analysis
Choose correct newspaper
.
-----
Ran 1 test in 4.400s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: Trying a real news from 2022

<https://timesofindia.indiatimes.com/world/us/new-york-city-braces-for-donald-trump-indictment-after-ex-president-urges-protests/articleshow/98847459.cms>

Expected Output: Real

Actual Output: News is predicted to be fake as it is from after 2021


```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle estimator from version 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
1
Please enter the URL you want to test
https://timesofindia.indiatimes.com/world/us/new-york-city-braces-for-donald-trump-indictment-after-ex-president-urges-protests/article16965363.ece
=====
FAIL: testNews2 (__main__.testFakeNews2)
=====
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(timesOfIndiaScraper(input_url)), "REAL", "The news is infact - FAKE")
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE
=====
Ran 1 test in 9.202s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: (Real URL)

<https://www.thehindu.com/news/2016-in-review/article16965363.ece>

Expected Output: Real

Actual Output: It goes into error. Our data is limited to 2021 and majorly to Trump. With this in mind, and the fact that you cannot access articles from the Hindu that are more than a year old, this gets thrown into an error.

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility.
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aaditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle model from version 0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more details, see
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
2
Please enter the URL you want to test
https://www.thehindu.com/news/2016-in-review/article16965363.ece
E
=====
ERROR: testNews2 (__main__.testFakeNews2)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraperscraper(input_url)), "REAL", "The news is infact -")
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraperscraper(input_url)), "REAL", "The news is infact -")
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraperscraper(input_url)), "REAL", "The news is infact -")
AttributeError: 'NoneType' object has no attribute 'text'

-----
Ran 1 test in 5.317s

FAILED (errors=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: (Fake URL)

<https://www.thehindu.com/news/international/Trump-loseesMichifan%E2%8099s-16-electoral-votes/article16718056.ece>

Expected Output: Error

Actual Output: Error occurred (as link does not exist)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Softw
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Adivi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickl
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info p
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
    warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
2
Please enter the URL you want to test
https://www.thehindu.com/news/international/Trump-loses-Michigan%E2%80%99s-16-electoral-votes/article16718056.ece
E
=====
ERROR: testNews2 (__main__.testFakeNews2)
=====
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTestin
    self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscrapecr(input_url)), "REAL", "The news is infact - FAKE")
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTestin
    main_text = soup.find('div',class_ = "col-xl-9 col-lg-8 col-md-12 col-sm-12 col-12 storyline").text
AttributeError: 'NoneType' object has no attribute 'text'

-----
Ran 1 test in 10.300s

FAILED (errors=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: Trying a Times of India URL for The Hindu newspaper

<https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-in-a-massive-upset/articleshow/55328174.cms>

Expected Output: Exit from code

Actual Output: Error message displayed

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle estimator PassiveAggressiveCl
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
2
Please enter the URL you want to test
https://timesofindia.indiatimes.com/us-elections-2016/Donald-Trump-elected-President-of-the-United-States-in-a-massive-upset/articleshow/55328174.cms
Choose correct newspaper
.
-----
Ran 1 test in 4.814s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: Trying a real news from 2022

<https://www.thehindu.com/news/cities/Delhi/cbi-team-at-former-jammu-kashmir-governor-satya-pal-maliks-delhi-residence/article66788529.ece>

Expected Output: Real

Actual Output: News is predicted to be fake as it is from after 2021

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info plea
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
2
Please enter the URL you want to test
https://www.thehindu.com/news/cities/Delhi/cbi-team-at-former-jammu-kashmir-governor-satya-pal-maliks-delhi-residence/article6
F
=====
FAIL: testNews2 (__main__.testFakeNews2)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\m
self.assertEqual(fakeNewsDetection2.fake_news_det(theHinduscraper(input_url)), "REAL", "The news is infact - FAKE")
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE

-----
Ran 1 test in 9.326s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> https://www.thehindu.com/news/cities/Delhi/
-maliks-delhi-residence/article66788529.ece

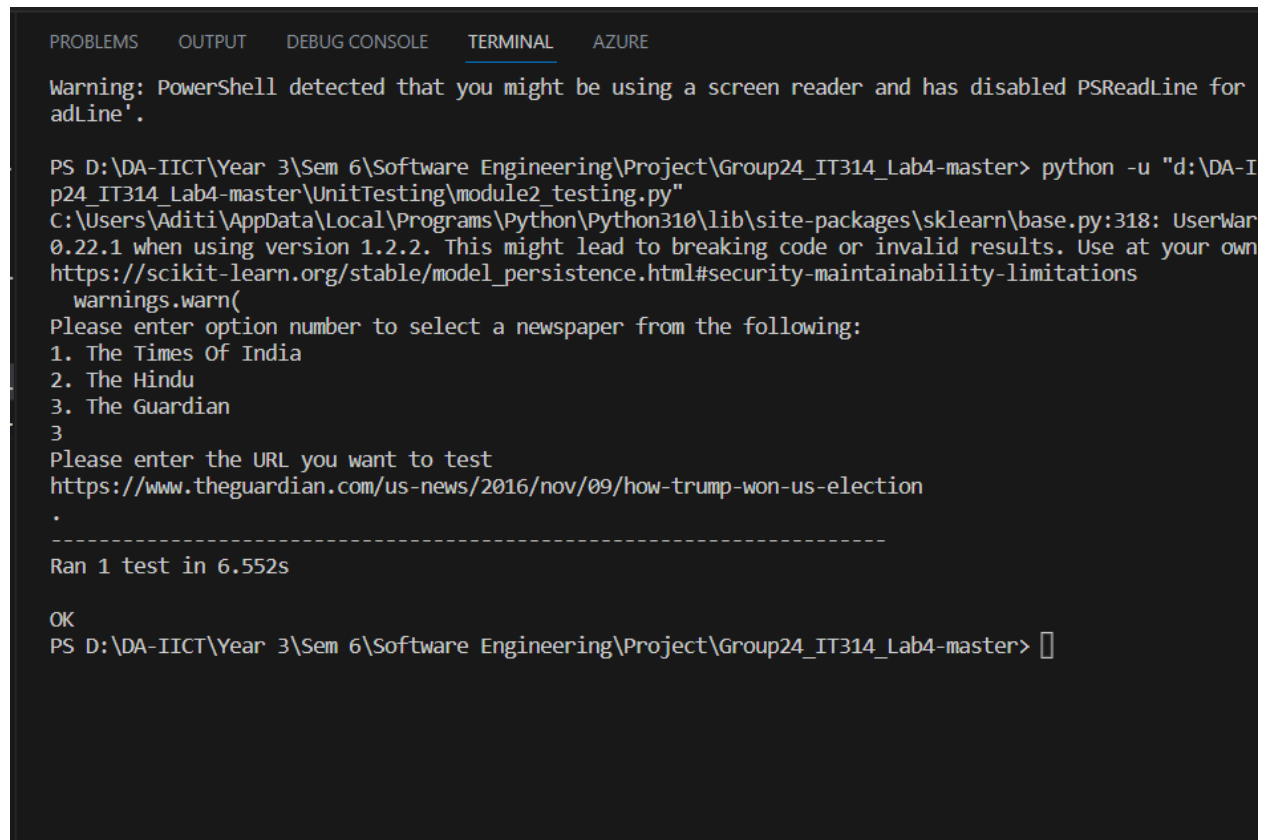
```

Input: (Real URL)

<https://www.theguardian.com/us-news/2016/nov/09/how-trump-won-us-election>

Expected Output: Real

Actual Output: Test Case Passes (as news is real)



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-I
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWar
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
3
Please enter the URL you want to test
https://www.theguardian.com/us-news/2016/nov/09/how-trump-won-us-election
.
-----
Ran 1 test in 6.552s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: (Real URL)

<https://www.theguardian.com/us-news/2016/nov/09/how-trump-won-us-election>

Expected Output: Fake

Actual Output: Failure is displayed (as news is real)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you
adLine'.

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Eng
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aaditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to unpickle esti
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more info please r
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
3
Please enter the URL you want to test
https://www.theguardian.com/us-news/2016/nov/09/how-trump-won-us-election
F
=====
FAIL: testNews2 (__main__.testFakeNews2)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\UnitTesting\modul
self.assertEqual(fakeNewsDetection2.fake_news_det(theguardianscraper(input_url)), "FAKE", "The news is infact - REAL")
AssertionError: array(['REAL'], dtype='<U4') != 'FAKE' : The news is infact - REAL
-----
Ran 1 test in 14.892s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: (Fake URL)

<https://www.theguardian.com/us-news/2016/nov/09/how-trump-lost-the-u-s-elections-of-2016>

Expected Output: Error

Actual Output: Error occurred (as link does not exist)

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  AZURE

PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning:
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk.
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
3
Please enter the URL you want to test
https://www.theguardian.com/us-news/2016/nov/09/how-trump-lost-the-us-elections-of-2016
E
=====
ERROR: testNews2 (__main__.testFakeNews2)
-----
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\module2_testing.py", line 10, in testFakeNews2
    self.assertEqual(fakeNewsDetection2.fake_news_det(theguardianscraper(input_url)), "REAL", "The news is not fake")
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\module2_testing.py", line 10, in testFakeNews2
    main_text = soup.find('div',class_ = "dc7w1w").text
AttributeError: 'NoneType' object has no attribute 'text'

-----
Ran 1 test in 25.607s

FAILED (errors=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 

```

Input: Trying The Hindu URL for The Guardian

<https://www.thehindu.com/news/international/Trump-wins-Michigan%E2%80%99s-16-electoral-votes/article16718056.ece>

Expected Output: Exit from code

Actual Output: Error message displayed

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem
p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
3
Please enter the URL you want to test
https://www.thehindu.com/news/international/Trump-wins-Michigan%E2%80%99s-16-electoral-votes/article16718056.ece
Choose correct newspaper
.
-----
Ran 1 test in 4.263s

OK
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> 
```

Input: Trying a real news from 2023

<https://www.theguardian.com/us-news/2023/apr/23/donald-trump-e-jean-carroll-trial-rape>

Expected Output: Real

Actual Output: News is predicted to be fake as it is from after 2021

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL AZURE

```
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> python -u "d:\DA-IICT\Year 3\Sem 6\p24_IT314_Lab4-master\UnitTesting\module2_testing.py"
C:\Users\Aditi\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\base.py:318: UserWarning: Trying to
0.22.1 when using version 1.2.2. This might lead to breaking code or invalid results. Use at your own risk. For more
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
Please enter option number to select a newspaper from the following:
1. The Times Of India
2. The Hindu
3. The Guardian
3
Please enter the URL you want to test
https://www.theguardian.com/us-news/2023/apr/23/donald-trump-e-jean-carroll-trial-rape
F
=====
FAIL: testNews2 (__main__.testFakeNews2)
=====
Traceback (most recent call last):
  File "d:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master\Group24_IT314_Lab4-master\Unit
    self.assertEqual(fakeNewsDetection2.fake_news_det(theguardianscraper(input_url)), "REAL", "The news is infact - F
AssertionError: array(['FAKE'], dtype='<U4') != 'REAL' : The news is infact - FAKE

-----
Ran 1 test in 5.960s

FAILED (failures=1)
PS D:\DA-IICT\Year 3\Sem 6\Software Engineering\Project\Group24_IT314_Lab4-master> []
```