



# Design and Implementation of Web Scrapper for Fact-Checking Website

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**Abstract.** Web scraping software automates the extraction of vast amounts of data from websites, streamlining the tedious manual process of copying and pasting information into spreadsheets or other storage formats. For instance, collecting content from websites like Politifact.com manually would require hiring multiple people to visit each page, copy information such as titles, authors, statements, dates, and sources, and then input it into a database. This manual approach could take days or even months to complete. However, web scraping tools can perform this task programmatically, visiting every page and parsing HTML to extract the required data efficiently. In our research, we utilized web scraping to collect and organize information from Politifact.com, specifically targeting key details like the title, author, statement, date, and source, significantly reducing the time and effort needed for data preparation.

**Keywords:** HTML, Beautiful Soup, Parsing, Social Media, PolitiFact.com.

## 1 Introduction

In our research, we utilized web scraping to collect and analyze information from Politifact.com, a reputable fact-checking website operated by the nonprofit Poynter Institute in St. Louis. Politifact.com is widely recognized for its commitment to separating fact from fiction in the political arena. Notably, the site earned the 2009 Pulitzer Prize for National Reporting due to its innovative fact-checking initiative during the 2008 presidential campaign, where it used in-depth reporting and the reach of the World Wide Web to examine over 750 political claims. This initiative played a crucial role in helping voters distinguish between political rhetoric and factual information. To facilitate our research, we employed web scraping techniques to systematically extract key details from Politifact.com. Specifically, we targeted data fields such as the title of the article, the author, the statement being fact-checked, the date of publication, and the original source of the information. By automating this data collection process, we were able to efficiently gather large volumes of structured data that would have been time-consuming to collect manually. This method not only saved significant time and resources but also ensured that our data was comprehensive and up-to-date, allowing for a more thorough analysis of the information presented on Politifact.com. The use of this novel website for fact extraction enabled us to delve deeper into the accuracy of political claims,

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contributing to a better understanding of the dynamics of truth and misinformation in political discourse.

## 2 Literature Review

Web scraping is a technique for extracting data from the World Wide Web (WWW) and storing it in a file system or database for analysis or retrieval, as described in [3]. Various studies highlight its utility in automating data collection for diverse applications. In [2], a system was proposed to scrape cybercrime-related news articles, which were classified into respective crime categories. Similarly, web scraping has been used to extract structured information efficiently, bypassing the time-consuming process of manual data collection [5]. Python is often preferred for its robust libraries that simplify scraping [6].

The legal and ethical implications of web scraping have also been explored, particularly regarding its legality and situational appropriateness [4]. Innovative approaches, like UzunExt [7], optimize scraping by extracting content directly with string methods, bypassing the creation of a DOM tree. Cloud-based solutions, leveraging platforms like AWS, have also been studied to enhance scalability and computational efficiency [14].

In [8], an overview of traditional web scraping solutions was presented, emphasizing their functional characteristics and success in various domains. Another unique concept, "demos scraping," was introduced in [9], focusing on gathering citizen-related information. These works underline web scraping's versatility in handling large-scale data extraction tasks across different fields.

## 3 Architecture of Web Scraper

In this architecture, we proposed data collection and how to store data in a particular file, shown in Figure-1.

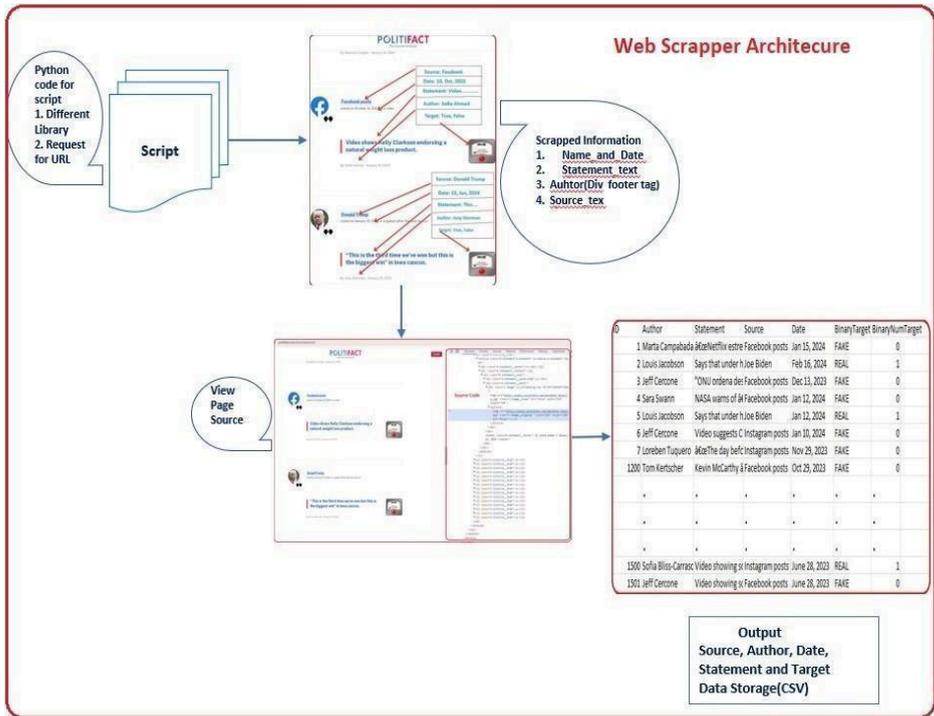


Fig. 1. Web Scrapper Architecture.

### 3.1 Implementation of Web Scrapper

Installing the required libraries using pip is the simplest method for installing external libraries in Python. It allows for easy management and installation of Python software packages. The Key libraries that are often essential include requests for handling HTTP requests, html5lib for parsing HTML documents, and BeautifulSoup (bs4) for web scraping and parsing HTML/XML content. These libraries, shown in Figure-2, are fundamental for tasks involving web data retrieval and processing in Python.

**Beautiful Soup:** A package called BeautifulSoup makes it simple to extract data from websites. It provides different HTML paradigms for iterating, searching, and altering the parse tree on top of an HTML or XML parser.

**html5lib:** html5lib is a Python package that implements the HTML5 parsing algorithm which is heavily influenced by current browsers and based on the WHATWG HTML5 specification. The lxml can benefit from the parsing capabilities of html5lib through the lxml Extension.

```
pip install requests
pip install html5lib
pip install bs4
```

Fig. 2. Important Libraries

### 3.2 Accessing the HTML Content From PolitiFact.com

There are two main ways to extract data from a website: by using API or by using a website (Politifact.com) for accessing information.

We followed some basic steps for accessing the HTML content from Politifact.com [17].

1. First of all, import the requests library.
2. Then, specify the URL of the webpage (Politifact.com) which want to scrape.
3. Send an HTTP request to the specified URL ((Politifact.com)) and save the response from the server in a response object called r.
4. Now, as print r.content to get the raw HTML content of the webpage.
5. We have shown the code in Figure-3.

```
st.title('Fake Content Detection for Politifact.com')
def scrape_website(page_number):
    import requests
    from bs4 import BeautifulSoup
    import csv
    page_num = str(page_number)
    URL= st.text_input('Enter the URL')
    # URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
    webpage = requests.get(URL)
```

Fig. 3. Accessing the HTML content from webpage

### Parsing the HTML content

To parse the HTML content retrieved from a website, the r.content method in Python is often used to obtain the raw response data. After retrieving the content, the html5lib parser can be employed to process and structure the HTML, making it easier to navigate and extract specific information from the webpage. In the steps, we created a BeautifulSoup object by passing two arguments:

1. **r.content**: It is the raw HTML content.
2. **html5lib**: Specifying the HTML parser which we want to use. Which is shown in Figure-4.

```
st.title('Fake Content Detection for Politifact.com')
def scrape_website(page_number):
    import requests
    from bs4 import BeautifulSoup
    import csv
    #This will not run on online IDE
    URL = "http://www.politifact.com"
    r = requests.get(URL)
    soup = BeautifulSoup(r.content, 'html5lib')
    print(soup.prettify())
```

Fig. 4. Parsing the HTML content

### Searching and Navigating Through the HTML Structure

We want to take some important information out of the HTML source code. Here basic source code of Politifact.com. All hierarchical structure data that might be programmatically extracted is contained in the soup object from the PolitiFact website. We are scraping a webpage with some quotes statement\_footer, statement\_quote,statement\_meta and target statement from the HTML page. Therefore, we would like to develop a program to save those quotations statement\_footer,statement\_quote,statement\_meta and target statement into the data frame from the HTML structure of websites. We can save data into the CSV file using pandas below figure-5.

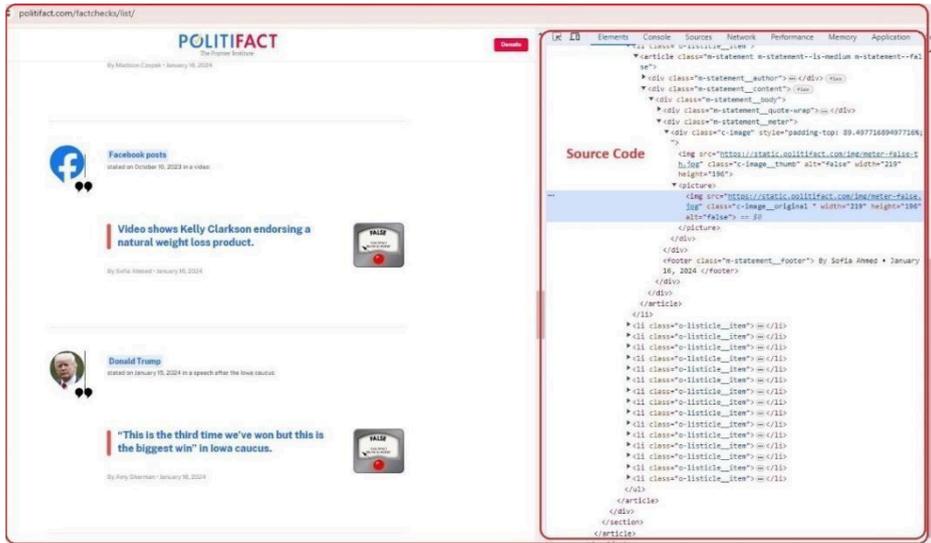


Fig. 5. HTML Structure of PolitiFact

#### 4 Dataset Collection Using Web Scrapper

Data collection is the act of obtaining and examining precise information from PolitiFact to assess potential outcomes, trends, and probability, among Author, Statement, Source, Date and Target. We collected Author, Statement, Source, Date and Target unlabeled and real-time data from PolitiFact.

```
st.title('Fake Content Detection for Politifact.com')
def scrape_website(page_number):
    page_num = str(page_number)
    URL = st.text_input('Enter the URL')
    # URL = 'https://www.politifact.com/factchecks/list/?page=' + page_num
    webpage = requests.get(URL)
    soup = BeautifulSoup(webpage.text, 'html.parser')
    statement_footer = soup.find_all('footer', attrs={'class': 'm-statement__footer'})
    statement_quote = soup.find_all('div', attrs={'class': 'm-statement__quote'})
    statement_meta = soup.find_all('div', attrs={'class': 'm-statement__meta'})
    target = soup.find_all('div', attrs={'class': 'm-statement__meter'})
```

Fig. 6. Parsing the HTML Content of PolitiFact

Now, in the next steps we scrapped different types of attributes from the PolitiFact.com

### Scrapping Author

Python’s BeautifulSoup module allows us to scrape information from local HTML files. Website pages may be stored locally (offline), and it may be necessary to retrieve data from them. Using BeautifulSoup, we can scrape contents, such as tags like h1, h2, p, and div, and extract key information like the author, which is crucial for our research.

The figure-7 shows a web page from Politifact.com, where the author name, Loreben Tuquero, is found in the footer tag, within the class m-state-ment\_footer. This class contains the information related to the author.

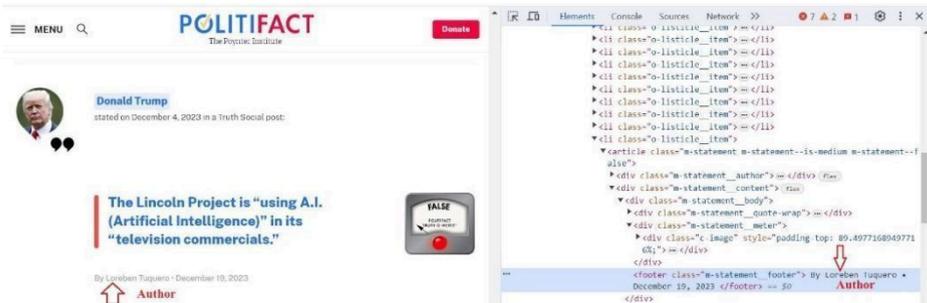


Fig. 7. Scrapping Author

### Retrieving Author Name From m Statement Footer Tag:

We created a `scrape_website()` function for extracting authors from web pages. It takes one argument page number for information extraction and we passed the page URL into `requests.get(URL)` method. We used the for loop for extracting all the authors from a particular page and appended all authors in the list variable. Which is shown in the below Figure-8.

```
def scrape_website(page_number):
    page_num = str(page_number)
    URL = st.text_input('Enter the URL')
    # URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
    webpage = requests.get(URL)
    soup = BeautifulSoup(webpage.text, 'html.parser')
    statement_footer = soup.find_all('footer', attrs={'class': 'm-statement_footer'})
    for i in statement_footer:
        link1 = i.text.strip()
        name_and_date = link1.split()
        first_name = name_and_date[1]
        last_name = name_and_date[2]
        full_name = first_name + ' ' + last_name
        authors.append(full_name)
    scrape_website(page_number)
```

Fig. 8. Implementation of Extracting Author



```

statements = []
def scrape_website(page_number): Function for all Executing all statements
    page_num = str(page_number)
    URL= st.text_input('Enter the URL')
    # URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
    webpage = requests.get(URL)
    soup = BeautifulSoup(webpage.text, 'html.parser') Extracting m-statement from HTML
    statement_quote = soup.find_all ('div', attrs={'class' : 'm-statement_quote'})

    for i in statement_quote: Loop for all the Statement Extraction
        link2 = i.find_all('a')
        statement_text = link2[0].text.strip()
        statements.append(statement_text)
scrape_website(Page number)

for i in range(1, n): Adding all the statement into dataframe
    scrape_website(i)
data1 = pd.DataFrame(columns = ['statement'])
data1['statement']= statements

```

Fig. 10. Implementation of Extracting Statement

### Scraping Source

The source is our third feature for predicting fake or real content . We stored Facebook posts, Instagram posts, Tim Scott, Social Media, Joe Biden, TikTok posts, Bloggers, and many more for our research.

The source is our third feature for predicting fake or authentic content. We stored Facebook, Instagram, Tim Scott, Social Media, Joe Biden, TikTok posts, bloggers, and more for our research. Figure-11 below shows the HTML design and source code of that page. By inspecting the source, we can extract information using the BeautifulSoup object. We mapped the desired information on the inspected HTML source code. The find method locates the first occurrence of a tag, while the find\_all method scans the entire HTML code for all instances.



Fig. 11. Scraping Source

### Retrieving Source from HTML Page

We can extract sources from the HTML page of politifact.com using the `scrape_website()` function. That function takes one input as a page number and returns all the sources to the List object [5]. List object kept that information in the

Dataframe for further operations. That all the operations shown in the below Figure -12.

```

47 st.title('Web scrapper for Politifact.com')
48 def scrape_website(page_number): Function for Extracting all the information
49     page_num = str(page_number)
50     URL = st.text_input('Enter the URL')
51     # URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
52     webpage = requests.get(URL)
53     soup = BeautifulSoup(webpage.text, 'html.parser')
54     statement_footer = soup.find_all('footer', attrs={'class': 'm-statement_footer'})
55     statement_quote = soup.find_all('div', attrs={'class': 'm-statement_quote'})
56     statement_meta = soup.find_all('div', attrs={'class': 'm-statement_meta'})
57     target = soup.find_all('div', attrs={'class': 'm-statement_meter'})
58
59
60     Extracting Source from Anchor tag
61     for i in statement_meta:
62         link3 = i.find_all('a')
63         source_text = link3[0].text.strip()
64         sources.append(source_text)
65
66 n = 2
67 for i in range(1, n):
68     scrape_website(i)
69     Append all Source into the Dataframe
70     data1 = pd.DataFrame(columns = [ 'source' ])
71     data1['source'] = sources

```

Fig. 12. Implementation of Extracting Source

## Scraping Date

As the name suggests these features one can trace the pattern of the spreading content on the web. We can scrape the Date features from the Politi-fact.com website with the help of inspecting the source code. The Date Features resides in the m-statement desc class inside the div tag. We can extract these features using BeautifulSoup library as in the previous section we discussed about BeautifulSoup. That feature provides the propagation dates for the author when it circulates the fake or real content. The Scraping dates from HTML pages are shown on below Figure-13.

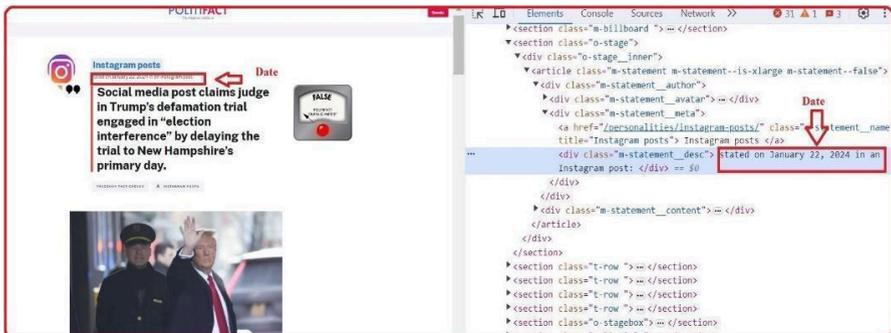


Fig. 13. Scraping Date

### Retrieving Date from HTML Page

We created a blank dictionary for storing all dates from Politifact.com. For that purpose, we created one `scrape_website ()` function that takes one input as a particular page number for scrapping all the dates from that page. Our dates stored into the `m-statement desc` which is classed into the `div` tag of that page. Then we used for loop to collect all the dates into a date object and append all the dates into the data frame. Which is shown below in Figure-14.

```

dates = []
st.title('Fake Content Detection for Politifact.com')
def scrape_website(page_number):
    page_num = str(page_number)
    URL = st.text_input('Enter the URL')
# URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
    webpage = requests.get(URL)
    soup = BeautifulSoup(webpage.text, 'html.parser')
    statement_dates = soup.find_all ('div' , attrs={'class' : ' m-statement_desc'})

    for i in statement_dates:
        link1 = i.text.strip()
        date= link1.split()
        date = month+' '+day+' '+year
        dates.append(date)

n = 2
for i in range(1, n):
    scrape_website(i)
data1 = pd.DataFrame(columns = ['date'])
data1['date']= dates

```

Annotations in the code block:

- Red arrow pointing to `scrape_website()`: `scrape_website(): Which used to scrape all the pages information`
- Red arrow pointing to `m-statement_desc`: `m-statement_desc : All dates of perticular pages reside into this tag`
- Red arrow pointing to `data1['date']= dates`: `Add All the Dates into Dataframe`

Fig. 14. Implementation of Extracting Date

### Scrapping Target

To determine whether a sentence is true or untrue, we employ the target feature. We followed the same procedure as in the previous section used for different features. Figure-15 below shows scrapping the target variables from the HTML page.



Fig. 15. Scrapping Target

### Retrieving Target attribute from HTML Page

We created a blank dictionary for storing all dates from Politifact.com. For that purpose, we created one `scrape_website()` function that takes one input as a

particular page number for scrapping all the dates from that page. Our dates stored into the m-statement desc which is classed into the div tag of that page and then we used loop to collect all the dates into a date object and append all the dates into the data frame which is shown below in Figure-16.

```

targets = []
st.title('Fake Content scrapping from Politifact.com')
def scrape_website(page_number):
    page_num = str(page_number)
    URL= st.text_input('Enter the URL')
    # URL = 'https://www.politifact.com/factchecks/list/?page='+page_num
    webpage = requests.get(URL)
    soup = BeautifulSoup(webpage.text, 'html.parser')
    target = soup.find_all ('div' , attrs={'class' : 'm-statement__meter'})

    for i in target:
        link = i.find('div' , attrs={'class' : 'c-image'}).find('img').get('alt')
        targets.append(link)
n = 2
for i in range(1, n):
    scrape_website(i)
data1 = pd.DataFrame(columns = ['target'])
data1['target'] = targets
    
```

Annotations in the code block:

- scrape\_website(): Used to extract all the Target values from the Politifact.com
- m-statement\_meter: Tag associated with target value
- Append all the targets
- Data1: Used to add the target into dataframe

Fig. 16. Implementation of Extracting Target

## 5 Results

We scrapped the different source, date, target, author, and statement attributes. The scrapped data stored into the csv file which shown in the Figure-17.

Unnamed: 0	author	statement	source	date	target	BinaryTarget	BinaryNumTarget	Fake	Real
0	Marta Campabadal	¿Netflix estrenará una película del Tílan el...	Facebook posts	June 29, 2023	FALSE	FAKE	0	FAKE	NaN
1	Louis Jacobson	Says that under his presidency, the unemployme...	Joe Biden	June 29, 2023	mostly-true	REAL	1	NaN	REAL
2	Jeff Cercone	"ONU ordena despenalizar a los pedáfilos.	Facebook posts	June 29, 2023	FALSE	FAKE	0	FAKE	NaN
3	Sara Swann	NASA warns of ¿internet apocalypse¿ which...	Facebook posts	June 29, 2023	FALSE	FAKE	0	FAKE	NaN
4	Jeff Cercone	Video suggests COVID-19 vaccines are responsib...	Instagram posts	June 29, 2023	FALSE	FAKE	0	FAKE	NaN
...	...	...	...	...	...	...	...	...	...
1495	Yacob Reyes	Dr. Blin 'changes tune on' COVID-19 vaccines a...	Facebook posts	July 29, 2022	FALSE	FAKE	0	FAKE	NaN
1496	Amy Sherman	In 2020, ¿250,000 ballots were manufactured¿...	The Gateway Pundit	July 29, 2022	pants-fire	FAKE	0	FAKE	NaN
1497	Madeline Heim	¿The legislature has long maintained that th...	Robin Vos	July 29, 2022	barely-true	FAKE	0	FAKE	NaN
1498	Louis Jacobson	"We've cut the deficit by a record \$1.5 trilli...	Janet Yellen	July 28, 2022	half-true	REAL	1	NaN	REAL
1499	Grace Abels	NASA photos of the moon and Earth show that ¿...	Viral image	July 28, 2022	pants-fire	FAKE	0	FAKE	NaN

500 rows x 10 columns

Fig. 17. Visualization of the Dataset

## 6 Conclusion

We designed and implemented a web scraper for PolitiFact.com to automate the collection of data essential for detecting fake content. The scraper was meticulously crafted to extract key information, including the author, statement, source, date, and verdict of each fact-checked claim. We began by outlining a modular and scalable architecture with components for web crawling, data parsing, and storage. Implemented using Python with libraries like BeautifulSoup and requests, the scraper navigates the site, handles pagination, and adapts to structural changes, ensuring compliance with web scraping best practices. This tool provides a robust pipeline for gathering data, integral to training and validating our machine learning models for fake content detection, enhancing both efficiency and accuracy.

## 7 Future Scope

In the future, we aim to work with different types of platforms for scrapping the information from fact-checking websites.

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