

# Data Analysis: Because 'Guessing' is Not a Strategy

LET'S CONNECT!

SUMIT SINGH



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## Topics Covered

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Step 1. **Sending an HTTP Request** : to retrieve the desired web page.

Step 2. **Retrieving Web Page Content** : usually in HTML format.

Step 3. **Parsing the HTML** : to locate specific data elements using Python libraries(e.g., BeautifulSoup, Scrapy).

Step 4. **Extracting Data** : The *relevant data* is extracted from the parsed HTML structure

Step 5. **Storing Data** : for further analysis or processing.

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Use the links above to jump directly to any section in this notebook.

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## Objective

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Comprehensive understanding of **web scraping techniques** using **Python**, specifically utilizing the **Beautiful Soup**(bs4) and **Requests** modules. By applying these tools, I successfully extracted faculty information from my college's website.

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## Introduction to Web Scraping

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**Web scraping** is a powerful technique used to extract data from **websites**.

It involves **fetching** web pages and **parsing** their content to **retrieve** specific information, which can be stored for further analysis or use.

Web scraping is commonly used for data collection, research, and various applications across different industries.

This can be useful for various applications, such as data analysis, research, and competitive analysis.

However, it's essential to respect the website's terms of service and robots.txt file to avoid legal issues.

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## Why is Web Scraping Needed ?

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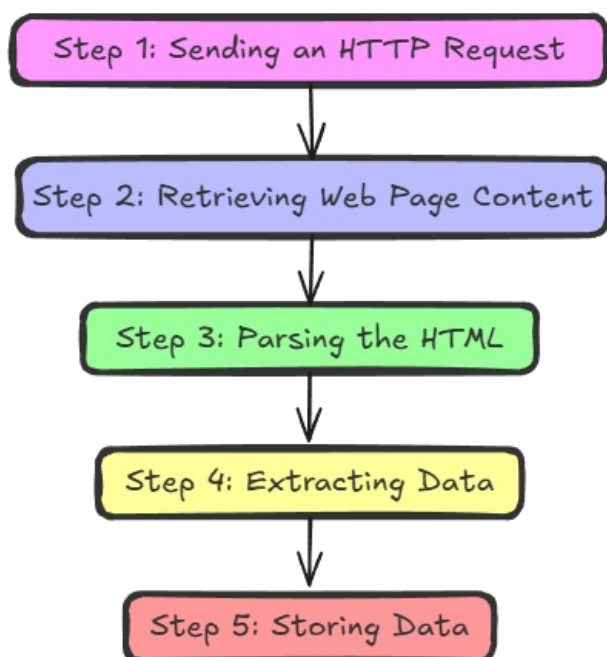
1. **Data Collection:** Web scraping allows for the automated gathering of data from multiple online sources, making it easier to collect large datasets for analysis or research.
  2. **Dynamic Content Extraction:** Many websites display dynamic content that may be difficult or impossible to collect manually. Web scraping can efficiently extract this data.
  3. **Time Efficiency:** Automating the data collection process saves time and reduces human error, enabling faster and more accurate results.
  4. **Access to Unstructured Data:** A significant amount of information on the web is unstructured. Web scraping helps convert this data into structured formats, facilitating analysis and integration.
  5. **Cost-Effectiveness:** By automating data collection, businesses and researchers can reduce the need for extensive human resources, lowering operational costs.
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## How is Web Scraping Done ?

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Web scraping typically involves the following steps:

1. **Sending an HTTP Request:** A request is sent to the target web server to retrieve the desired web page.
2. **Retrieving Web Page Content:** The server responds with the web page content, usually in HTML format.
3. **Parsing the HTML:** The HTML content is parsed to locate specific data elements using libraries or tools designed for this purpose (e.g., BeautifulSoup, Scrapy).
4. **Extracting Data:** The *relevant data* is extracted from the parsed HTML structure based on predefined rules or criteria.
5. **Storing Data:** The extracted data can be stored in various formats, such as CSV, JSON, or databases, for further analysis or processing.



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## Tools for Web Scraping

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**Beautiful Soup (bs4)** : A library for parsing HTML and XML documents, it provides Pythonic idioms for iterating, searching, and modifying the parse tree, making it easy to extract data from web pages.

**Pandas** : Primarily a data manipulation library, it can also be used for web scraping by reading HTML tables directly into DataFrames,

allowing for efficient data analysis and manipulation after extraction.

**Requests:** A simple and elegant HTTP library for Python, it allows you to send HTTP requests easily, handle responses, and manage sessions, making it essential for fetching web content before parsing it with tools like BeautifulSoup.

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## Getting Started with Requests

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### Importance of Requests in Web Scraping

The Requests library is a popular HTTP library for Python, making it easy to send HTTP requests and handle responses. Here are the key reasons why Requests is important in web scraping:

#### 1. Simplified HTTP Requests

- **User -Friendly API:** Requests provides a simple interface for making GET and POST requests, allowing you to fetch web pages with minimal code.
- **Session Management:** It supports session management, enabling you to maintain cookies and headers across multiple requests.

#### 2. Handling URL Parameters

- **Easy Parameter Passing:** You can easily pass URL parameters and form data using dictionaries, making it straightforward to interact with web forms and APIs.

#### 3. Response Handling

- **Accessing Content:** The library allows you to access the response content easily, including HTML, JSON, and binary data.
- **Status Code Checking:** You can check the status code of the response to handle errors and ensure successful requests.

#### 4. Custom Headers and Authentication

- **Custom Headers:** Requests allows you to set custom headers, which can be useful for simulating browser requests or handling APIs that require specific headers.
- **Authentication:** It supports various authentication methods, including Basic Auth and OAuth, making it versatile for different web services.

#### 5. Integration with BeautifulSoup

- **Fetching HTML Content:** Requests is often used to fetch HTML content, which can then be parsed using BeautifulSoup for data extraction.
  - **Streamlined Workflow:** The combination of Requests and BeautifulSoup creates a streamlined workflow for web scraping.
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## Getting Started with BeautifulSoup

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### Importance of BeautifulSoup in Web Scraping

Beautiful Soup is a powerful library in Python for parsing HTML and XML documents. It is widely used in web scraping for the following reasons:

#### 1. HTML Parsing

- **Ease of Use:** BeautifulSoup provides a simple and intuitive API for navigating and searching the parse tree of HTML documents.
- **Flexible Parsing:** It can handle poorly formatted HTML, making it robust for real-world web scraping scenarios.

#### 2. Data Extraction

- **Element Selection:** Use methods like `.find()`, `.find_all()`, and CSS selectors to locate specific HTML elements and extract data.
- **Text and Attribute Retrieval:** Easily extract text content and attributes from HTML tags, allowing for efficient data collection.

#### 3. Integration with Other Libraries

- **Combining with Requests:** BeautifulSoup is often used in conjunction with the Requests library to fetch HTML content and then parse it for data extraction.
- **Compatibility:** It works well with other libraries like Pandas for data manipulation and analysis.

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# Getting Started with Pandas

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## Importance of Pandas in Web Scraping

Web scraping is the process of extracting data from websites. When combined with Pandas, it becomes a powerful tool for data analysis and manipulation. Here are some key reasons why Pandas is important in web scraping:

### 1. Data Structuring

Pandas provides two primary data structures: Series and DataFrame. These structures allow you to organize scraped data in a tabular format, making it easier to analyze and manipulate.

- **DataFrame**: Ideal for handling structured data, where each column can hold different data types (e.g., integers, strings).

### 2. Exporting Data

After processing the scraped data, Pandas makes it easy to export the results to various formats:

- **CSV**: Use `df.to_csv('output.csv', index=False)` to save the DataFrame as a CSV file.
- **Excel**: Save data to Excel files using `df.to_excel('output.xlsx', index=False)`.

### 3. Integration with Other Libraries

Pandas integrates well with other libraries commonly used in web scraping, such as:

- **Beautiful Soup**: For parsing HTML and XML documents.
- **Requests**: For making

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## How to Scrape a Website ?

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### Sending an HTTP Request

```
In [34]: import requests

url = 'http://gcambalacanthtry.edu.in/Faculty'
response = requests.get(url)

if response.status_code == 200 :
    print(" Successfully fetched the page!")
else :
    print(f"Failed to retrieve the page ! Status Code :{response.status_code}")
```

Successfully fetched the page!

### Retrieving Web Page Content

#### Parsing the HTML

```
In [35]: from bs4 import BeautifulSoup

soup = BeautifulSoup(response.content, 'html.parser')
```

```
In [36]: #print(soup.prettify()) # formatted Version
```

### Extracting Data

```
In [37]: faculty_info = []

faculty_data = soup.find_all('div', {'class' : 'contact-box'})
```

```
In [38]: for data in faculty_data :
    fname = data.find('span', class_='text-primary').get_text(strip=True)
    fdept = data.find('span', id=lambda x: x and 'lblSubject' in x).get_text(strip=True)
    fpost = data.find('span', id=lambda x: x and 'lblDesignation' in x).get_text(strip=True)
    fpic = data.find('img')['src']
    faculty_info.append({'faculty_name' : fname,
                        'faculty_post' : fpost,
```

```
'faculty_dept' : fdept,
'faculty_photo' : fpic })
```

## Storing Data

```
In [39]: import pandas as pd
```

### Creating a DataFrame with pandas

```
In [40]: df = pd.DataFrame(faculty_info)
df
```

```
Out[40]:
```

	faculty_name	faculty_post	faculty_dept	faculty_photo
0	Anju Tanwar	Assistant Professor	Botany	https://mis.highereduhry.ac.in/EmplImages/11150...
1	Dr Ravinder Kaur	Extension Lecturer	Botany	https://mis.highereduhry.ac.in/forms_MIS/EL/Em...
2	Rohini Singh	Assistant Professor	Botany	https://mis.highereduhry.ac.in/EmplImages/10196...
3	Shilpa	Extension Lecturer	Botany	https://mis.highereduhry.ac.in/forms_MIS/EL/Em...
4	Abha Chaudhary	Assistant Professor	Chemistry	https://mis.highereduhry.ac.in/EmplImages/13052...
5	Deepak Sharma	Associate Professor	Chemistry	https://mis.highereduhry.ac.in/EmplImages/10725...
6	Dharam Singh	Assistant Professor	Chemistry	https://mis.highereduhry.ac.in/EmplImages/12915...
7	Dr Avtar Singh Rahi	Associate Professor	Chemistry	https://mis.highereduhry.ac.in/EmplImages/10599...
8	Monika Rani	Assistant Professor	Chemistry	https://mis.highereduhry.ac.in/EmplImages/13012...
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17	Monika Sharma	Assistant Professor	Commerce	https://mis.highereduhry.ac.in/EmplImages/10628...
18	Ms Rekha Rani	Extension Lecturer	Commerce	https://mis.highereduhry.ac.in/forms_MIS/EL/Em...
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96	Anju Bhardwaj	Assistant Professor	Music (V)	<a href="https://mis.highereduhry.ac.in/EmplImages/11069...">https://mis.highereduhry.ac.in/EmplImages/11069...</a>
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100	Harneet Kaur	Assistant Professor	Physics	<a href="https://mis.highereduhry.ac.in/EmplImages/12912...">https://mis.highereduhry.ac.in/EmplImages/12912...</a>
101	Priyanka	Assistant Professor	Physics	<a href="https://mis.highereduhry.ac.in/EmplImages/13113...">https://mis.highereduhry.ac.in/EmplImages/13113...</a>
102	Reeta Rani	Extension Lecturer	Physics	<a href="https://mis.highereduhry.ac.in/forms_MIS/EL/Em...">https://mis.highereduhry.ac.in/forms_MIS/EL/Em...</a>
103	Mamta Kumari	Extension Lecturer	Political Science	<a href="https://mis.highereduhry.ac.in/forms_MIS/EL/Em...">https://mis.highereduhry.ac.in/forms_MIS/EL/Em...</a>
104	Ravinder Kumar	Assistant Professor	Political Science	<a href="https://mis.highereduhry.ac.in/EmplImages/11009...">https://mis.highereduhry.ac.in/EmplImages/11009...</a>
105	Dr Ajay Gauri	Assistant Professor	Psychology	<a href="https://mis.highereduhry.ac.in/EmplImages/11091...">https://mis.highereduhry.ac.in/EmplImages/11091...</a>
106	Dr Ravi Aggarwal	Extension Lecturer	Psychology	<a href="https://mis.highereduhry.ac.in/forms_MIS/EL/Em...">https://mis.highereduhry.ac.in/forms_MIS/EL/Em...</a>
107	Dr Neelam Rani	Extension Lecturer	Punjabi	<a href="https://mis.highereduhry.ac.in/forms_MIS/EL/Em...">https://mis.highereduhry.ac.in/forms_MIS/EL/Em...</a>
108	Reeta Devi	Assistant Professor	Sanskrit	<a href="https://mis.highereduhry.ac.in/EmplImages/10621...">https://mis.highereduhry.ac.in/EmplImages/10621...</a>
109	Daleep Kumar	Assistant Professor	Tourism	<a href="https://mis.highereduhry.ac.in/EmplImages/12191...">https://mis.highereduhry.ac.in/EmplImages/12191...</a>
110	Rajeev Sharma	Assistant Professor	Tourism	<a href="https://mis.highereduhry.ac.in/EmplImages/12042...">https://mis.highereduhry.ac.in/EmplImages/12042...</a>
111	Shikha Bhatt	Assistant Professor	Tourism	<a href="https://mis.highereduhry.ac.in/EmplImages/11173...">https://mis.highereduhry.ac.in/EmplImages/11173...</a>
112	Dr Ratesh Kumar	Extension Lecturer	Zoology	<a href="https://mis.highereduhry.ac.in/forms_MIS/EL/Em...">https://mis.highereduhry.ac.in/forms_MIS/EL/Em...</a>
113	Pooja Devi	Assistant Professor	Zoology	<a href="https://mis.highereduhry.ac.in/EmplImages/11052...">https://mis.highereduhry.ac.in/EmplImages/11052...</a>
114	Tarsem Kumar	Assistant Professor	Zoology	<a href="https://mis.highereduhry.ac.in/EmplImages/11056...">https://mis.highereduhry.ac.in/EmplImages/11056...</a>

## Saving the Data

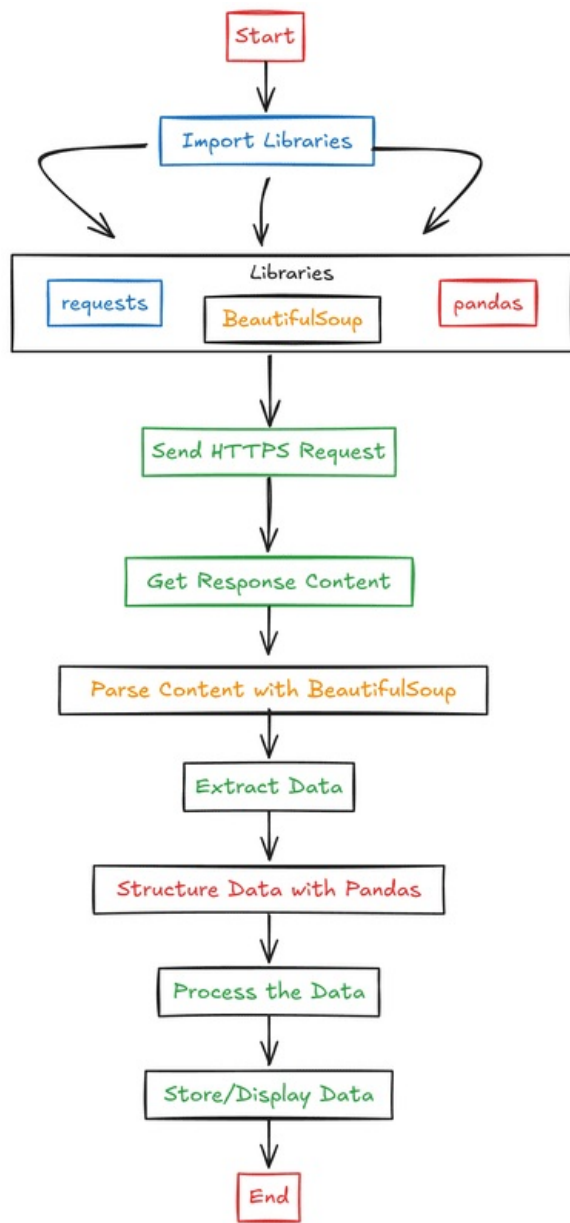
```
In [41]: MyData = df.to_csv("faculty_info")
print("Data saved successsfully as CSV format!!") #In the same folder
```

Data saved successsfully as CSV format!!

## Display Entire Dataset

```
In [43]: pd.set_option('display.max_rows', None) # Show all rows
```

# SUMMARYYY



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**THANKS**

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