



Data Science | 30 Days of Machine Learning | Day - 5

Educator Name: Nishant Dhote Support Team: **+91-7880-113-112**

#Data Gathering (Previous Classes)

- 1. Working with CSV Files Day 3
- 2. Working with JSON/SQL Day 3
- 3. Fetching data from an API Day 4

#Framing a Machine Learning Problem - Day 4

#Data Gathering

4. Fetching data using web scraping Industries

----Upcoming Topics----EDA & Feature Engineering

How We Understand the Data?

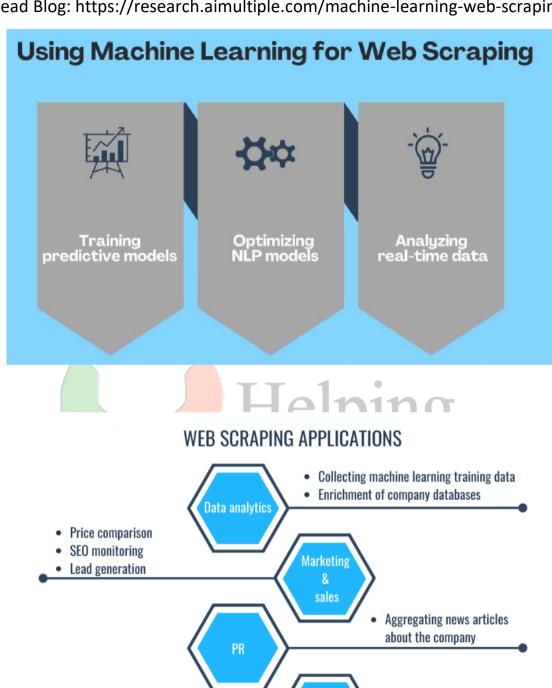
What is Web Scraping: It's is a term used for automatically retrieving data from the internet and structuring it in a useful manner. The standard scraping algorithm makes use of static paths to navigate the program through the HTML to the sought-after data.

Web scraping is an automatic method to obtain large amounts of data from websites. Most of this data is unstructured data in an HTML format which is then converted into structured data in a spreadsheet or a database so that it can be used in various applications.





Read Blog: https://research.aimultiple.com/machine-learning-web-scraping/



Trading

Market research

Install our IHHPET Android App: https://play.google.com/store/apps/details?id=com.logixhunt.ihhpet Contact: +91-7880-113-112 | Visit Website: www.industrieshelpinghands.com

Strategy

· Collecting financial data

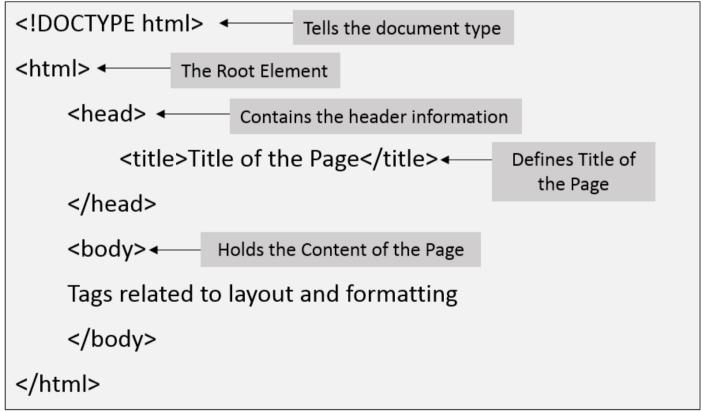




WEB SCRAPING













Heading 1 Heading 3 Heading 4 Heading 5 Heading 6

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
```

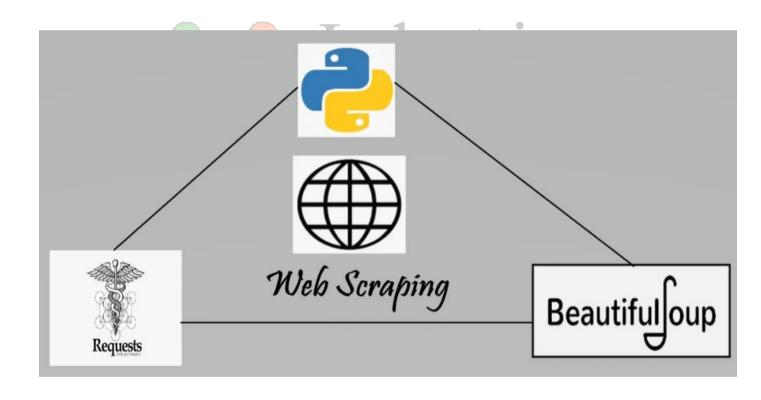




```
<body>
 <div id="content">
   <h1>Heading here</h1>
   Lorem ipsum dolor sit amet.
   Lorem ipsum dolor <em>sit</em> amet.
   <hr>>
 </div>
 <div id="nav">
   <u1>
     item 1
     item 2
     item 3
   </div>
</body>
```













Welcome to 30 Days Machine Learning

Import Libraries

import pandas as pd import requests from bs4 import BeautifulSoup

We use link for web scraping: https://www.ambitionbox.com/list-of-companies?page=1

Import Webpage

headers={'User-Agent':'Mozilla/5.0 (Windows NT 6.3; Win 64; x64) Apple WeKit /537.36(KHTML, like Gecko) Chrome/80.0.3987.162 Safari/537.36'}

webpage=requests.get('https://www.ambitionbox.com/list-of-companies?page=1',headers=headers).text

Define "Soup" as BeautifulSoup Library

soup=BeautifulSoup(webpage,'Ixml')

Use Print

#print(soup.prettify())

Extract the heading line

for n in soup.find_all('h1'):
 print(n.text.strip())

Extract the Company Name

for i in soup.find_all('h2'):
 print(i.text.strip())





Extract the rating value

for k in soup.find_all('span',class_='companyCardWrapper__companyRatingValue'):
 print(k.text.strip())

Extract the all card details

for j in soup.find_all('span',class_='companyCardWrapper__interLinking'):
 print(j.text.strip())

<End Code>

Upcoming Class- Day 6

- Exploratory Data Analysis (EDA)
- EDA Univariate Analysis
- EDA Bivariate Analysis
- EDA Multivariate Analysis
- Pandas Profiler
- Asking Basic Question







Data Story Telling: Curious Data Minds

ASIAN PAINTS: INDIA'S BIGGEST DATA SCIENCE COMPANY THAT SELLS PAINT

Read Blogs:

https://startuptalky.com/asian-paints-case-study/

https://d3.harvard.edu/platform-digit/submission/asian-paints-indias-biggest-data-science-company-that-sells-paint/

https://yourstory.com/2023/08/asian-paints-data-science-revolution

https://tradebrains.in/asian-paints-case-study/

