BoAt-Lifestyle Web Scraping Project on Airdopes using Python

Presented to:



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Web Scraping of Boat Airdopes Using Python & BeautifulSoup

Introduction:

Web scrapping project involves extracting data from websites to be used for various purposes, such as data analysis, research, reporting, or populating databases with the use of tools and libraries like Python, Requests, BeautifulSoup.

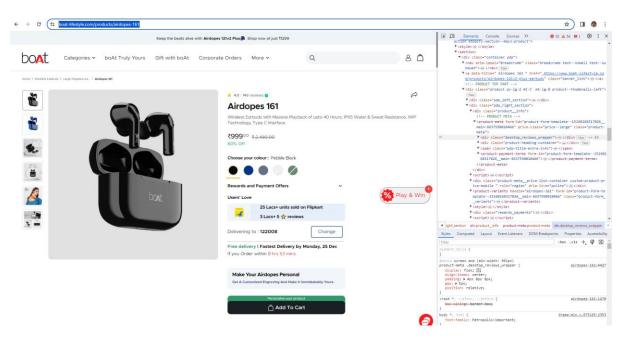
Here we are going to get the information about:

- Product Name,
- Product Price,
- Customer Name,
- Reviews,
- Ratings.

There are various benefits and risks of web scraping like:

- ❖ Access to valuable data for analysis or research.
- Automation of data collection, saving time and effort.
- Legal issues related to web scraping.

The first thing we is to pick the website for scraping the data. And go to inspect data: https://www.boat-lifestyle.com/products/airdopes-161 To access link (Ctrl+Click)



Next step is to Install the important libraries: Python has several libraries, we will use the following libraries:

- Requests to make HTTP requests to website,
- BeautifulSoup parsing the HTML code,
- Pandas for storing the scraped data in data frame.

```
In [1]: import requests
    from bs4 import BeautifulSoup
    import pandas as pd
    url='https://www.boat-lifestyle.com/products/airdopes-161'
```

We'll now write the main python code. The code will perform the following steps:

- Using requests to send an HTTP GET requests,
- Using BeautifulSoup to parse the HTML code,
- Extracting the required data from the HTML code.

```
Out[2]: b'<!doctype html><html\n class="no-js"\n lang="en"\n dir="ltr"\n draggable="false">\n <head>\n <meta charset="utf-8">\n <meta name="viewport" content="width-device-width, initial-scale=1.0, height=device-height, minimum-scale=1.0, maximum-scale=6.0">\n <meta name="theme-color" content="#fffffff">\n <meta name="facebook-domain-verification" content="qadla3gl dwmxjf6luncdygpvcpduub">\n link rel="canonical" href="ittps://www.boat-lifestyle.com/products/airdopes-161">link\n rel="shortcut icon"\n href="//www.boat-lifestyle.com/cdn/shop/files/32x32_256x256.png_32x32_2099509-ec86-4c14-b928-71 101777194c_96x96.png?v=1647426716"\n type="image/png"><ti>tile>\n boAt Airdopes 161 | Wireless Earbuds With Massive Playback of upto 40 \n </tile><meta name="description" content="boAt Airdopes 161 - Wireless Earbuds Worr partner for eve ry vibe, Airdopes 161 earbuds pumps uninterrupted music with its massive playback of upto 40 Hours. And when you run out of b attery, you can enjoy 180 Minutes of music with just 10 Minutes of charge. Grooving has never been so hasslefree with Bluetoo th vS.1 that seamlessly plays your music. Gone are the days when you had to check if your device is connected or not. Our. connects with your paired devices as soon as you open the lid of the case. Indulge in our immersive sound with its 10mm driver and enjoy music for every vibe. AIRDOPES 161 Charge for 10 Minutes, ENJOY 180 Minutes IPXS WATER &map; SWEAT RESISTANCE Ace y our sport. You don\xe2\x80\x90\x90 have to worry about your Airdopes as you groove to your favourite workout tracks. boAt Immers ive Sound Get captivated by boAt immersive sound powered by 10mm drivers no matter what you are playing. The bass is tuned for a thumping listening experience that transports you to another world. Type C Interface Type C interface promises \xe2\x80\x80\x90 Ayeed, ease of use, versatility. Say goodbye to your charging struggles. Quick Response Touch Control your music with ease. Play/pause, attend calls and activate voice assistants via ju
```

Access Product Name using this source code:

```
In [4]: title=soup.title
title.text.strip()

Out[4]: 'boAt Airdopes 161 | Wireless Earbuds with Massive Playback of upto 40'

In [20]: desc=soup.find(class_="product-meta__title heading h3").text
desc.strip()

Out[20]: 'Airdopes 161'
```

Access Product Price using this source code:

```
In [7]: price=soup.find(class_="price price--highlight price--large").text
    price
Out[7]: '\nSale price\find(class_="price price--highlight price--large").text
    price=soup.find(class_="price price--highlight price--large").text
    price.replace('\nSale price','')
Out[8]: '\figs99'
```

• Access Customer names who gives ratings & reviews:

• Color Options for Cuatomers:

```
In [59]: color=soup.find(class_='color-swatch-list').text color.strip().replace('\n\n\n\n\n',',')

Out[59]: 'Pebble Black , Thunder Blue , Pearl White , Olive Green , Cool Sapphire , engrav_Pebble Black , engrav_Cool Sapphire , engrav_Pearl White , engrav_Olive Green , engrav_Thunder Blue'
```

• Access Customer Ratings and Reviews:

Arrange all data using pandas library:

```
In [60]: import pandas as pd df=pd.DataFrame({'Cust_name':Custname_, 'Reviews':Reviews_,'Ratings':Ratings_}) df

Out[60]: Cust_name Reviews Ratings

O Saish kumar nelaturi Very nice 5 star review

1 Jayan. Super 5 star review

2 Kanishk Verma Highly Satisfied 5 star review

3 Alin rakesh pandagale Excellent 

4 ARUNDAS K Affordable price 5 star review

5 Shiva Teja Product is good 4 star review
```

• Export data to CSV file:

```
In [28]: import os
    os.getcwd()
Out[28]: 'C:\\Users\\MOHIT TARADE\\Downloads'
In [61]: df.to_csv('boAt-Airdopes',index='false')
```

Read the CSV file with data frame:

In [62]: df1=pd.read_csv(r'boAt-Airdopes')
 df1

Out[62]:

	Unnamed: 0	Cust_name	Reviews	Ratings
0	0	Saish kumar nelaturi	Very nice	5 star review
1	1	Jayan .	Super	5 star review
2	2	Kanishk Verma	Highly Satisfied	5 star review
3	3	Alin rakesh pandagale	Excellent 👍 🎉	5 star review
4	4	ARUNDAS K	Affordable price	5 star review
5	5	Shiva Teja	Product is good	4 star review

Conclusion:

In conclusion, the web scraping project focused on extracting customer sentiments, product popularity, and pricing trends using customer reviews, ratings, product names, and prices from the website that has been executed successfully using Python. Throughout the project, we navigated the complexities of web scraping, adhering to ethical considerations and respecting the website's terms of service.

