CAR.COM SINGLE AND MULTI-PAGE WEB SCRAPING

BY: IHECHILURU WINNER EMAIL

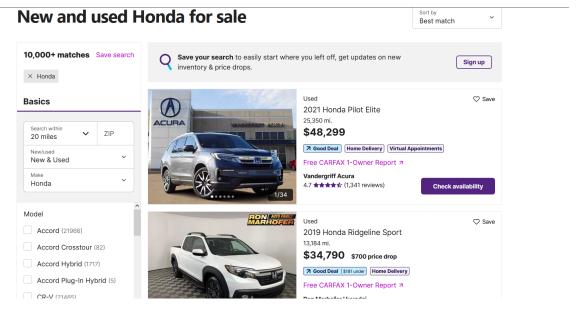
INTRODUCTION

During the course of this project, I created a python script that basically extracted the



Of all the cars present in this <u>link</u> and also in all the other pages that had the same in information.

Below is a screenshot of what the website looks like.



SINGLE PAGE SCRAPING

There are a total of 20 cars per web page and for a single webpage first I developed a crawler that basically runs through just this page and gets all the information I need as regards the website.

Here's a screenshot of part of the script

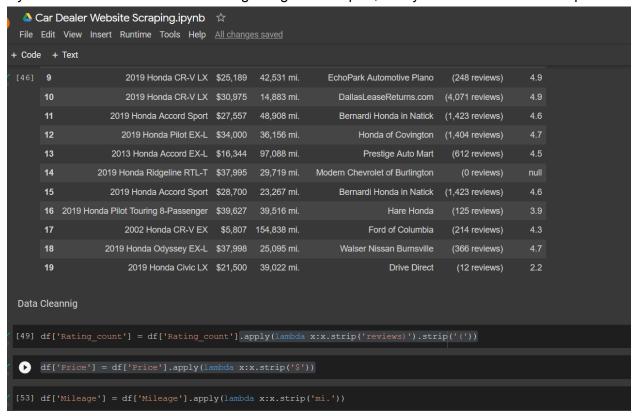
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Q
             name.append("null")
              mileage.append(result.find('div', {'class':"mileage"}).get_text())
{x}
              mileage.append("null")
dealer_name.append(result.find('div', {'class': 'dealer-name'}).get_text().strip())
              dealer_name.append("null")
              rating_count.append(result.find('span', {'class': 'sds-rating_link sds-button-link'}).get_text())
              rating_count.append("null")
              price.append(result.find('span', {'class': 'primary-price'}).get_text())
              price.append("null")
              rating.append(result.find('span', {'class': 'sds-rating count'}).get text())
\blacksquare
               rating.append("null")
```

Data Cleaning

The output I got was details of 20 cars but then as you might have guessed this data at this point wasn't really ready for statistical operations, so I had to clean and prepare the data.

The picture below represents how the data was before and screengrabs of part of the script used in cleaning it. I would love to hop on a call with you and discuss with you in detail how I can prepare your data to better suit your requirements or purpose.

My mail has been attached at the beginning of this report, kindly reach me there to set up a call.



OUTPUT

Excel car.com_single_page_scraper - Saved >						
File	e Ho	me Ins	sert D	raw Pa	ge Layout	Formul
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A1		v fx	Name			
	Α	В	С	D	Е	F
1	Name	Price	Mileage	ealer_nam	ating_cou	Rating
2	2021 Hond	48,299	25,350	Vandergrif	1,341	4.7
3	2019 Hond	34,790	13,184	Ron Marho	266	4.6
4	2019 Hond	29,000	12,553	MotorWor	1,677	4.7
5	2018 Hond	31,897	46,207	Honda of I	1,752	4.6
6	2019 Hond	38,927	36,463	Hare Hono	125	3.9
7	2019 Hond	18,799	6,639	AX Auto In	112	4.3
8	2013 Hond	18,523	84,703	Planet Hor	4,381	4.6
9	2020 Hond	37,300	14,786	Vandergrif	1,613	4.6
10	2019 Hond	27,400	46,515	Honda of I	2,477	4.8
11	2019 Hond	25,189	42,531	EchoPark /	248	4.9
12	2019 Hond	30,975	14,883	DallasLeas	4,071	4.9
13	2019 Hond	27,557	48,908	Bernardi H	1,423	4.6
14	2019 Hond	34,000	36,156	Honda of (1,404	4.7
15	2013 Hond	16,344	97,088	Prestige A	612	4.5
16	2019 Hond	37,995	29,719	Modern Cl	0	null
17	2019 Hond	28,700	23,267	Bernardi H	1,423	4.6
18	2019 Hond	39,627	39,516	Hare Hond	125	3.9
19	2002 Hond	5,807	154,838	Ford of Co	214	4.3
20	2019 Hond	37,998	25,095	Walser Nis	366	4.7
21	2019 Hond	21,500	39,022	Drive Dire	12	2.2

MULTI-PAGE WEB SCRAPING

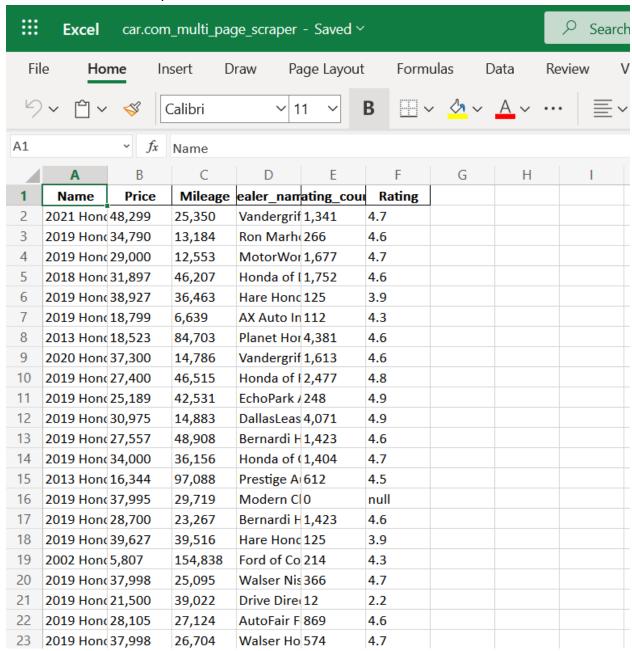
In this aspect of the project, I scraped the same data but now from 10 pages in total (this number is scalable as per your requirements)

Code

```
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 CO
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≣
           for i in range(1,11):
Q
             response = requests.get(website)
             soup = BeautifulSoup(response.content, 'html.parser')
<>
             results = soup.find all('div', {"class": "vehicle-card"})
{x}
             for result in results:
name.append(result.find('h2').get_text())
                name.append("null")
                mileage.append(result.find('div', {'class':"mileage"}).get text())
                mileage.append("null")
                 dealer name.append(result.find('div', {'class': 'dealer-name'}).get text()
                 dealer name.append("null")
                rating_count.append(result.find('span', {'class': 'sds-rating_link sds-butt
                rating_count.append("null")
>_
                 price.append(result.find('span', {'class': 'primary-price'}).get text())
```

As you might already think, we also cleaned the data we extracted and then the final output has a total of 200 entries.

Here's what the final output looks like:



Here's my <u>Email</u>, contact me so we can set up a call and discuss how I can help you extract data from your web source or server and export it to whatever format you'd like.

Ihechiluru Winner.