Web Scraping of Maruti Car Listings from Cars24 Using Python

Aim:-

To extract relevant details of 9 used Maruti cars listed for sale in Mumbai from cars24.com using Python, and store the information in a structured CSV file for analysis

Objectives:-

- To collect key information:
   Car Make
   Model
   Kilometers Driven
   Fuel Type
   Transmission Type
   Price
   Location

- To automate data extraction using <u>web scraping tools</u>

- To present the extracted data in a clean, tabular format using a CSV file

Tools & Libraries Used:-

requests - To make HTTP requests to the website

BeautifulSoup (bs4) - To parse and extract HTML content

Pandas - To organize and export data to CSV

Google collab and python – For writing and executing python code

Methodology:-

1. Send Request to Website:
Use the requests library to fetch the HTML of the Maruti cars page for Mumbai

2. Parse HTML Content:
With BeautifulSoup ,the HTML is parsed to locate the blocks (cars_cards)
containing individual car details.

3. Extract Information from Each Car Listing: For each car

- Extract car make and model
- Extract kilometers driven
- Extract fuel type and transmission
- Extract price
- Extract location

4. Store Data in Lists:
   The extracted information is stored in separate Python lists for each attribute.

5. Create a DataFrame:
   The lists are combined into a pandas.DataFrame

6. Export to CSV:
   The data is exported into a CSV file (cars24_Maruti_Mumbai_9.csv).

Output:-

A CSV file named:
cars24_Maruti_Mumbai_9.csv
Contains structured data of 9 Maruti cars in Mumbai.

	A	B	C	D	E	F	G
1	Car Make	Model	Kilometers Driven	Fuel Type	Transmission Type	Price	Location
2	Maruti	Wagon R 1.0	43.40k km	Petrol	Auto	â‚¹3.24 lakh	Mulund West, Mumbai
3	Maruti	Alto K10	66.84k km	CNG	Manual	â‚¹3.25 lakh	Mulund West, Mumbai
4	Maruti	New Wagon-R	48.32k km	Petrol	Manual	â‚¹4.45 lakh	N/A
5	Maruti	Wagon R 1.0	56.00k km	Petrol	Manual	â‚¹3.58 lakh	Kandivali, Mumbai
6	Maruti	Celerio	83.71k km	Petrol	Manual	â‚¹2.73 lakh	Mulund West, Mumbai
7	Maruti	Celerio	20.59k km	CNG	Manual	â‚¹4.24 lakh	Goregaon, Mumbai
8	Maruti	Swift	56.01k km	Petrol	Manual	â‚¹3.26 lakh	N/A
9	Maruti	IGNIS	15.74k km	Petrol	Auto	â‚¹6.61 lakh	Goregaon, Mumbai
10	Maruti	Baleno	40.46k km	Petrol	Manual	â‚¹4.84 lakh	N/A
11							

Conclusion:-

This project demonstrates how **web scraping** with Python can be effectively used to gather real-world data from e-commerce platforms like Cars24. The scraped data can support market analysis, pricing trends, and decision-making in the used car industry.

THANK YOU……………!

Presented by – Mansi Naik