

Web Scraping of Tata 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 web scraping tools
- 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.

	Make	Model	Kilometers Driven	Fuel Type	Transmission Type	Price	Location
1	Maruti	Ertiga	67.41k km	Petrol	Manual	₹7.47 lakh	Mulund West, Mumbai
2	Maruti	New Wagon-R	9.08k km	Petrol	Manual	₹4.36 lakh	Eastern Express Hwy, Thane West, Mumbai
3	Maruti	Swift	94.52k km	Petrol	Manual	₹3.68 lakh	Mulund West, Mumbai
4	Maruti	Alto K10	41.98k km	Petrol	Manual	₹3.06 lakh	Mulund West, Mumbai
5	Maruti	Dzire	38.31k km	Petrol	Manual	₹5.02 lakh	Mulund West, Mumbai
6	Maruti	Celerio	60.24k km	Petrol	Manual	₹3.48 lakh	Mulund West, Mumbai
7	Maruti	Celerio	87.66k km	CNG	Manual	₹4.02 lakh	Eastern Express Hwy, Thane West, Mumbai
8	Maruti	Wagon R 1.0	11.43k km	CNG	Manual	₹4.08 lakh	Eastern Express Hwy, Thane West, Mumbai
9	Maruti	Wagon R 1.0	35.16k km	Petrol	Manual	₹2.90 lakh	Kandivali, Mumbai

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.....!

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