

DATA INSIGHTS

Guided By : Aniket Manwaktar

Done by : Team K



TEAM LEADS

01

MANISH KUMAR
SAHU

(Team Lead)

02

SHRAVYA
VENISHETTY

(Team Lead)

03

RUDRA
NAIR

(Co - Lead)

04

AMIT KUMAR
PATRA

(Co - Lead)

EXTENDED TEAM MEMBERS

Shimpa

Chinmaya
Nayak

Harsh
Kumar

Sneha P
Pratap

Ritansh
Shrivastava

Disha
Liladia

EXTENDED TEAM MEMBERS

Lokesh
Sable

Yashwant
Lohande

Aviral
Srivastava

Rushikesh
Narayan
Amrute

Aishwarya
Dadasaheb
Bhusari

Prarthana S
Poojary

EXTENDED TEAM MEMBERS

Anand
Kumar Sahu

Naseeruddeen

Arusa
Begum

Siddharth
Verma

Yash Singh

Alok

EXTENDED TEAM MEMBERS

Ishan Rathore

Komal shyam
Pathade

OBJECTIVES

Our objective is to collect and scrape detailed data on various types of cars for sale in different locations from Cars24.com. We will focus on ensuring data accuracy through meticulous cleaning and processing, with the ultimate goal of delivering valuable insights for potential buyers and sellers.



DATA COLLECTION



Website used

The data was sourced from Cars24.com, a leading site for used car listings.



Key data points

The extraction focused on car model, price, year of manufacture, mileage, fuel type, transmission, and location.



Python libraries utilized

Beautiful Soup was used for HTML parsing, while Selenium was employed to manage dynamic content.



Automated Scraping Process

Python scripts were crafted to automate data extraction, ensuring both efficiency and thoroughness.



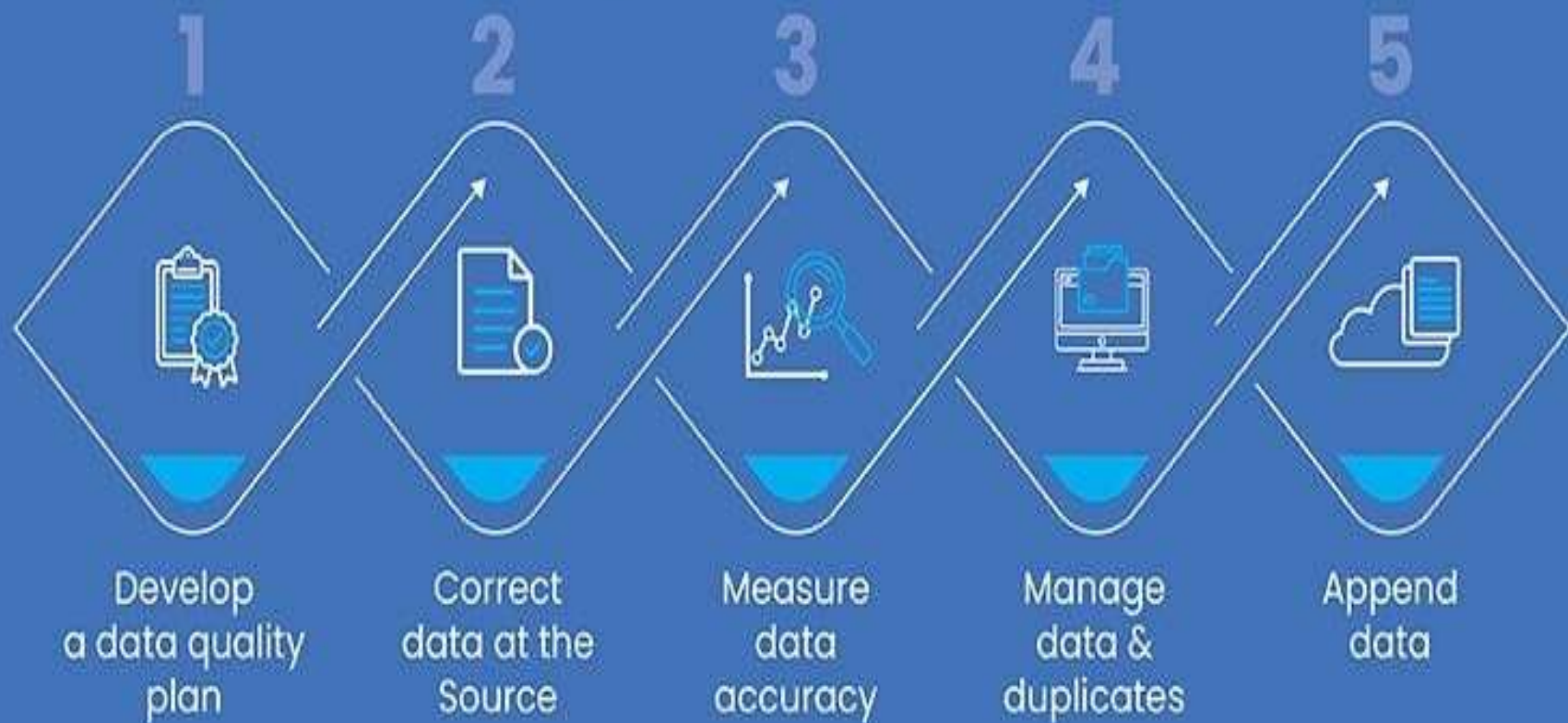
Data Accuracy

Python scripts were crafted to automate data extraction, ensuring both efficiency and thoroughness.

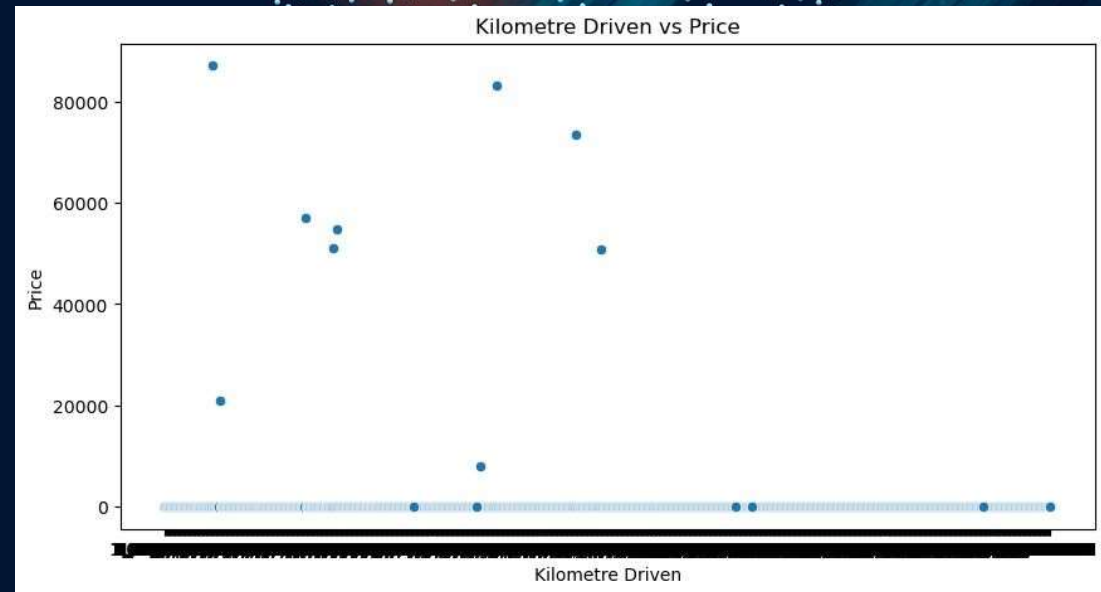
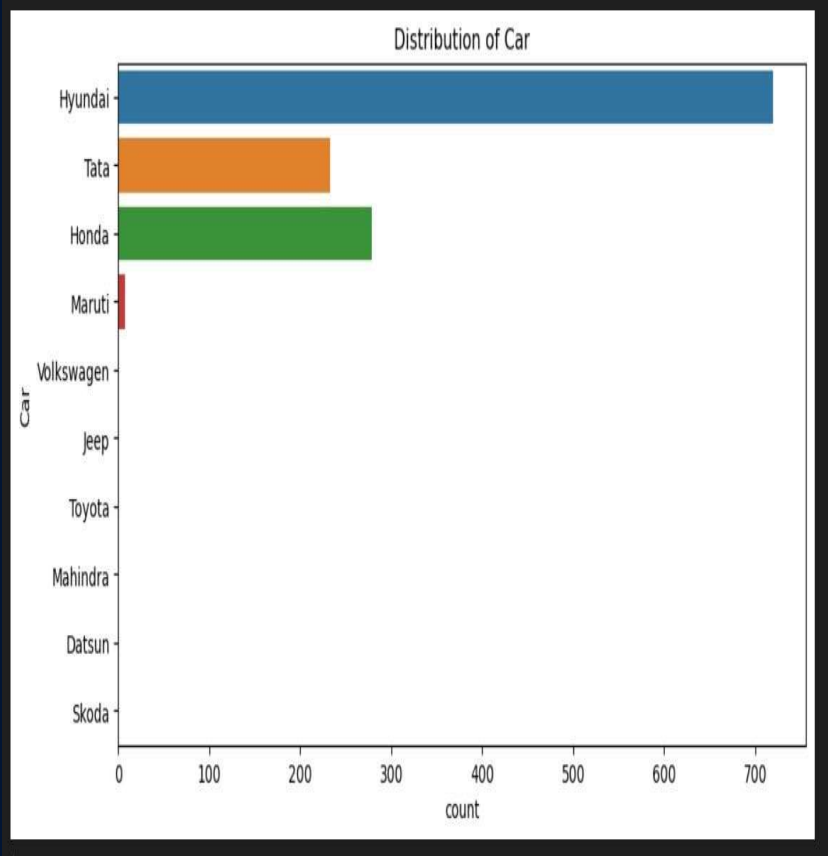
DATA CLEANING

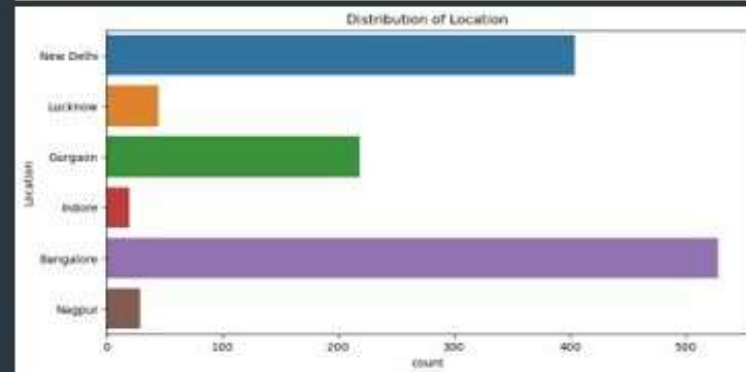
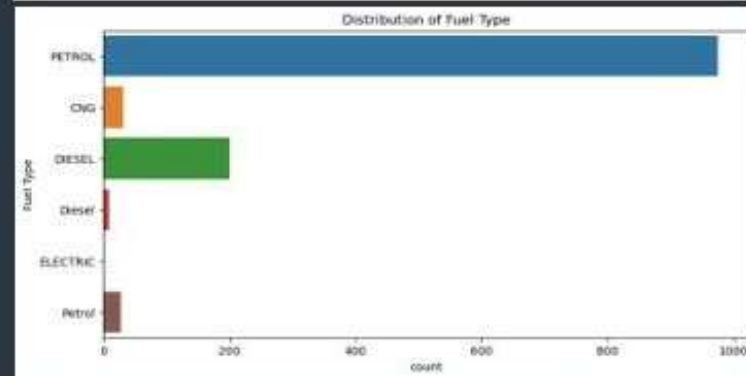
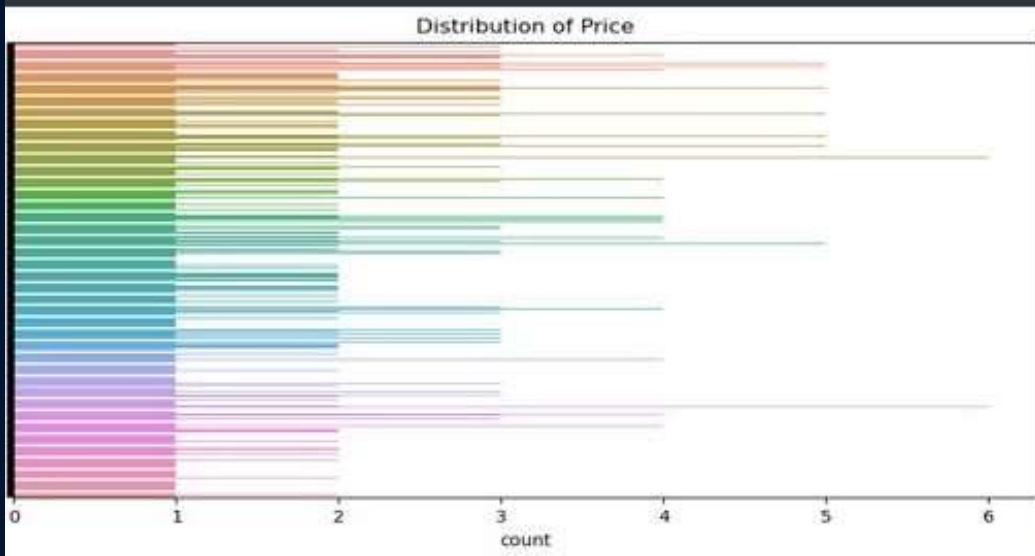
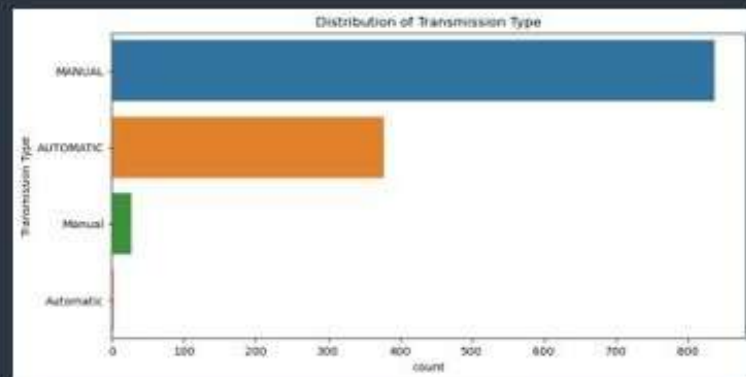
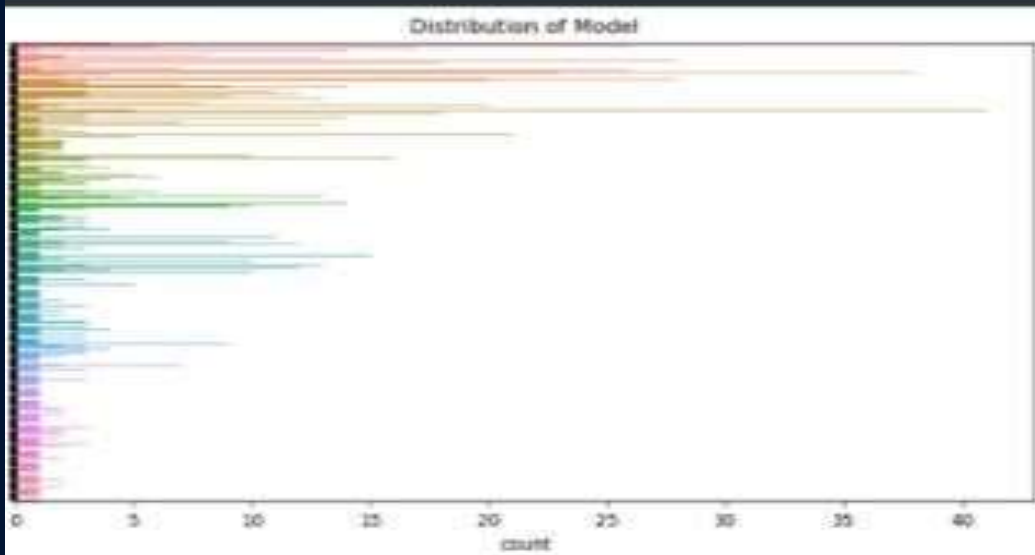
By eliminating duplicate entries, adding missing values, standardizing data formats, fixing data types, and spotting outliers, we improved our dataset through data cleaning. These procedures guaranteed the accuracy, consistency, and dependability of our data for analysis.

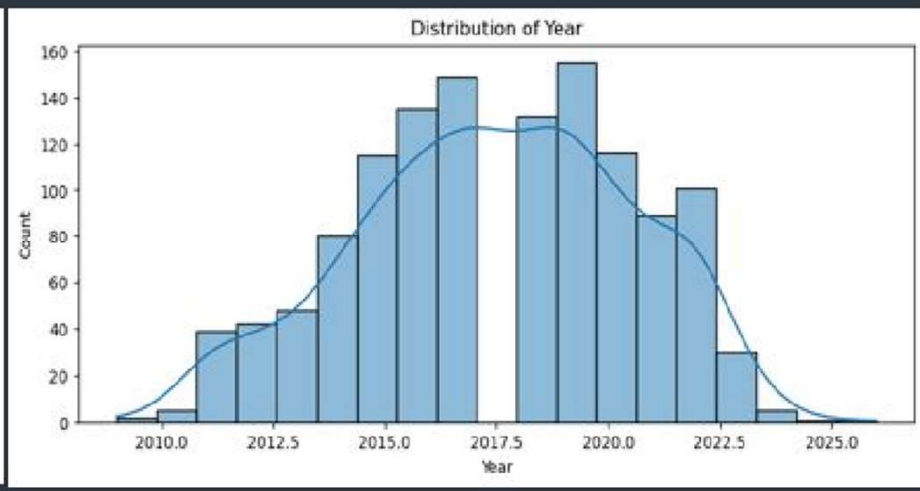
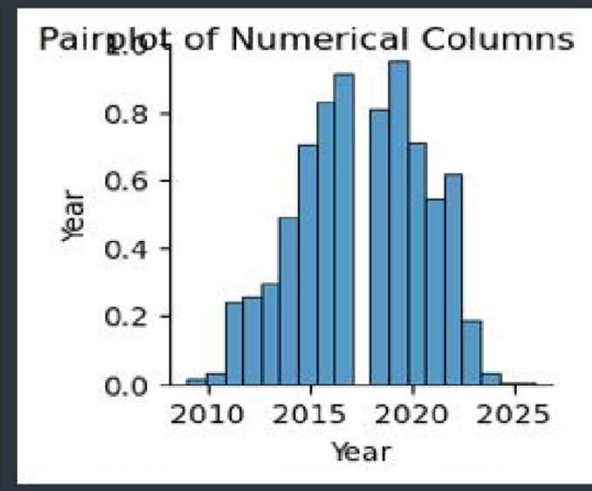
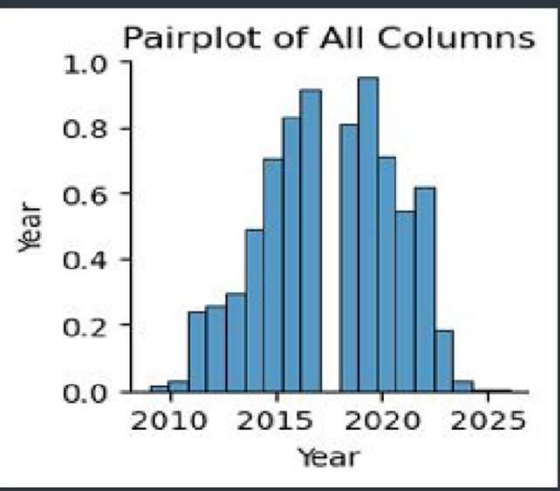
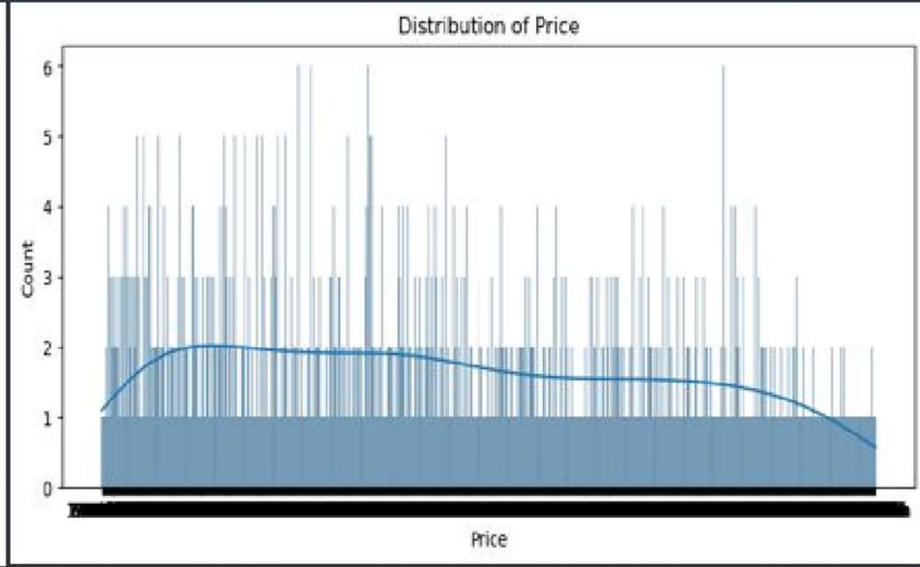
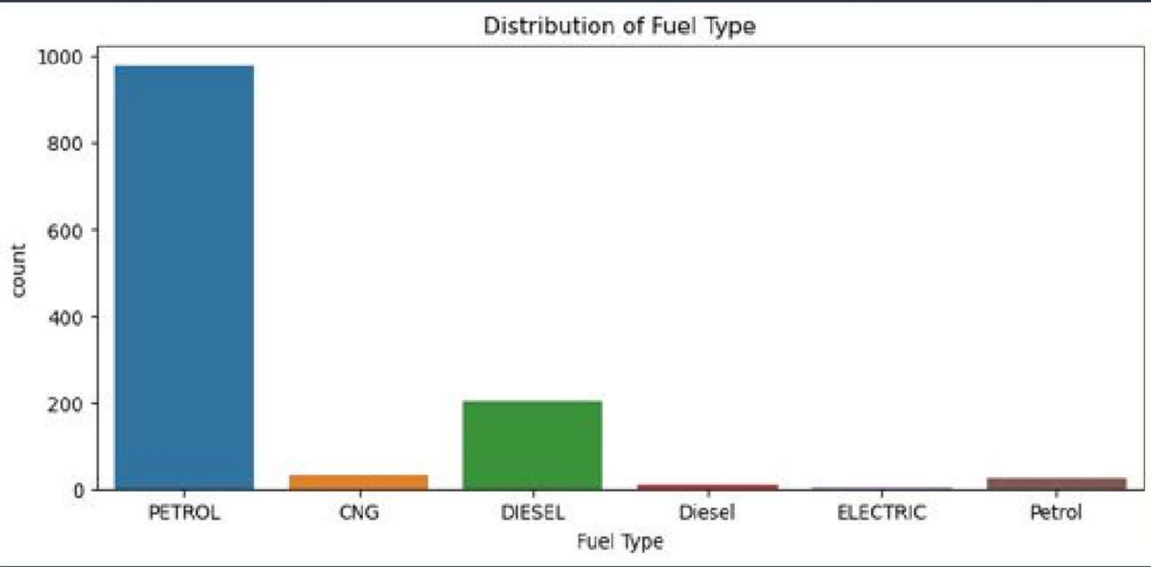
5 Steps to **Cleaner Data**



Data Analysis







Cars24 Dashboard

1233

Count of Model

Year

All

Transmissi...

All

- Location
- Bangalore
 - Gurgaon
 - Indore
 - Lucknow
 - Nagpur
 - New Delhi

Price by Car



Year-wise Car Distribution



Count of Cars By Company Name



Price	Car	Transmission Type	Kilometre Driven	Year	Model
5.24 lakh	Hyundai	MANUAL	46,562 KM	2018	Xcent S 1.2 CRDI
4.35 lakh	Hyundai	MANUAL	43,633 KM	2018	Xcent
6.49 lakh	Honda	MANUAL	46,515 KM	2018	WR-V 1.2L i-VTEC
8.24 lakh	Honda	MANUAL	38,678 KM	2021	WR-V
7.01 lakh	Hyundai	MANUAL	33,353 KM	2017	Verna
8.51 lakh	Hyundai	MANUAL	48,413 KM	2021	VENUE
4.94 lakh	Tata	MANUAL	49,572 KM	2019	Tiago XZ PLUS PET
4.69 lakh	Tata	MANUAL	70,736 KM	2019	Tiago XZ PETROL
Total				2487558	



Cars24 Dashboard

1233

Count of Model

Year

All

Transmission...

All

- Location
- Bangalore
 - Gurgaon
 - Indore
 - Lucknow
 - Nagpur
 - New Delhi

Price by Car



Year-wise Car Distribution



Count of Cars By Company Name



Price	Car	Transmission Type	Kilometre Driven	Year	Model
5.24 lakh	Hyundai	MANUAL	46,562 KM	2018	Xcent S 1.2 CRDI
4.35 lakh	Hyundai	MANUAL	43,633 KM	2018	Xcent
6.49 lakh	Honda	MANUAL	46,515 KM	2018	WR-V 1.2L i-VTEC
8.24 lakh	Honda	MANUAL	38,678 KM	2021	WR-V
7.01 lakh	Hyundai	MANUAL	33,353 KM	2017	Verna
8.51 lakh	Hyundai	MANUAL	48,413 KM	2021	VENUE
4.94 lakh	Tata	MANUAL	49,572 KM	2019	Tiago XZ PLUS PET
4.69 lakh	Tata	MANUAL	70,736 KM	2019	Tiago XZ PETROL
Total				2487558	



Cars24 Dashboard

528

Count of Model

Year

All

Transmission...

All

- Location
- Bangalore
 - Gurgaon
 - Indore
 - Lucknow
 - Nagpur
 - New Delhi

Price by Car



Year-wise Car Distribution



Count of Cars By Company Name



Price	Car	Transmission Type	Kilometre Driven	Year	Model
4.8 lakh	Tata	AUTOMATIC	79,684 KM	2015	Tata Zest XTA F-TRON
3.72 lakh	Tata	MANUAL	75,916 KM	2015	Tata Zest XMS PETROL
4.4 lakh	Tata	MANUAL	80,078 KM	2016	Tata Zest XMS PETROL
3.69 lakh	Tata	AUTOMATIC	96,667 KM	2014	Tata Zest XMA F-TRON
7.03 lakh	Tata	AUTOMATIC	33,984 KM	2020	Tata TIGOR XZA PLUS
4.65 lakh	Tata	AUTOMATIC	94,257 KM	2017	Tata TIGOR XZA PETROL
5.2 lakh	Tata	AUTOMATIC	70,793 KM	2018	Tata TIGOR XZA PETROL
6.65 lakh	Tata	MANUAL	27,603 KM	2020	Tata TIGOR XZ PLUS P
Total				1065168	



Data Insights And Findings



**Popular Models:
Hyundai And Honda**



**Average:
Manual - rs 7.21 lakhs,
Automatic - rs 7.59 lakhs**



**Fuel Type Preference:
Petrol cars dominate the listing**



**Transmissions preference:
The data reveals a significant preference
for manual transmission cars.**

Challenges

- Dynamic Web : Content adapting scraping techniques to handle dynamic web content
- Data Accuracy : Ensuring data accuracy and completeness
- Missing Data : Dealing with incomplete or missing data



Conclusion

❏ **Successful Data Collection:**

Scraped detailed information on Tata cars in NewDelhi,Mumbai,Gurgaon,Lucknow,Banglore,pune,Nagpur from Cars24.com using Python,libraries like Beautifulsoup and Selenium.

❏ **Key Insights:**

- Most popular models identified.
- Average pricing trends analyzed.
- Mileage ranges, fuel type, and transmission preferences determined.
- **Challenges Overcome:** Managed dynamic web content and ensured data accuracy.
- **Future Work:** Automate scraping for real-time data updates and continuous analysis.

❏ **Value**

- Provides valuable insights for buyers and sellers in the New Delhi,pune,Nagpur,lucknow,Gurgaon,Mumbai car market.



THANKYOU

We are now open to any questions or
feedback that you may have.