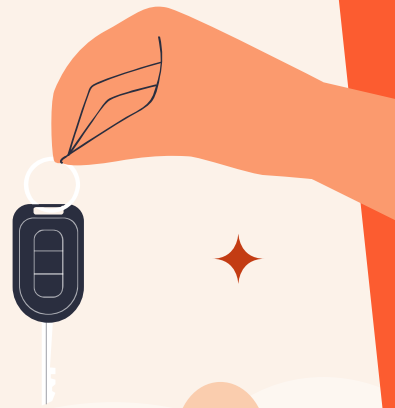
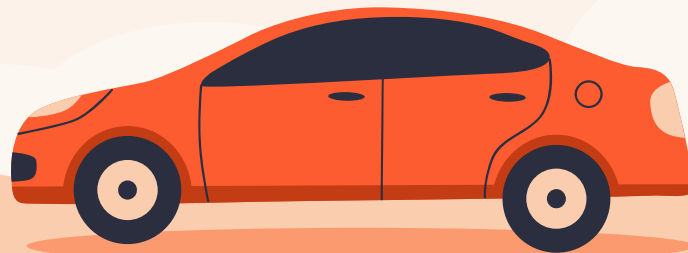


# Analysis of Used Renault Cars at **CARS24**

Presented by Team I



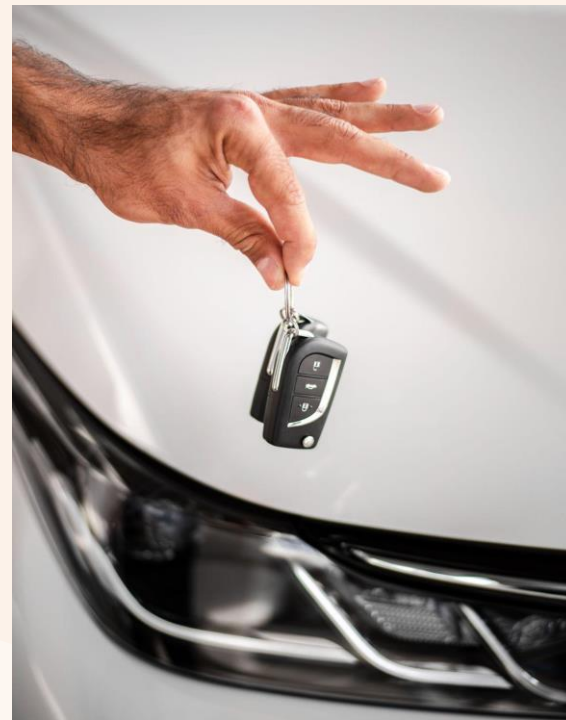


# Table of contents

- ❖ Before we begin...
- ❖ Navigating the process
- ❖ Challenges faced
- ❖ Insights and analysis
- ❖ Summary

# Before we begin...

- To develop skills in **Web Scraping**
- Extracting and analyzing Renault car details from **Cars24.com**
- Cars listed in the **Mumbai** location
- **Key details** to cover: Car name, Year of manufacture, kilometers driven, Fuel type, Transmission and Price



# Navigating the Process

**01**

**Research & Planning**

**02**

**Data Extraction**

**03**

**Data Cleanup**

**04**

**Data Analysis**

**05**

**Insights Generation**

**06**

**Presentation**



# Overview of the Analytical Process



## Research and Planning

- ✓ Identified objectives and gathered information on Renault cars listed on Cars24.com.



## Data Extraction

- ✓ Collected data from Cars24.com, focusing on car details for the Mumbai location.



## Data Cleaning

- ✓ Processed the extracted data to remove inconsistencies and errors.



## Data Analysis

- ✓ Analyzed the cleaned data to identify patterns and trends.



## Insights Generation

- ✓ Derived key insights regarding car details such as name, year of manufacture, kilometers driven, fuel type, transmission, and price.



## Presentation

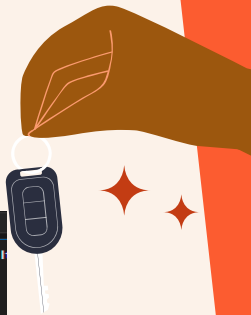
- ✓ Compiled and presented the findings in a clear and organized format for easy understanding.



# Analytical Challenges Encountered

Only 20 cars load per page, requiring additional steps to navigate through multiple pages

Difficulty in extracting complete data due to the need to load additional pages for the remaining cars



```
minal Help < -> Program works
sample_testing.py bee.html evoastra_webscraping.ipynb web scraping cars24 renault
Evoastra intern works > web scraping cars24 renault.ipynb > ...
+ Code + Markdown | ▶ Run All | ⌵ Clear All Outputs | ⌵ Outline | ...

[45] from selenium import webdriver
import time

[46] link='https://www.cars24.com/buy-used-car?f=make%3A%3D%3Arenault&sort=bestmatch8

[47] browser=webdriver.Chrome()
browser.get(link)
time.sleep(3)

height=browser.execute_script("return document.body.scrollHeight")
print(f'Initial Height of the page: {height}')

while True:
    browser.execute_script("window.scrollTo(0, document.body.scrollHeight);")
    time.sleep(3)

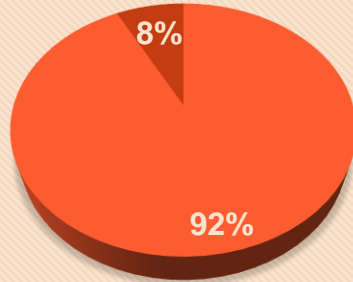
    new_height=browser.execute_script("return document.body.scrollHeight")
    if(new_height==height):
        break
    else:
        pass
    height=new_height
print(f'Final Height of the page: {height}')
html=browser.page_source
browser.quit()

... Initial Height of the page: 7158
Final Height of the page: 8087
```

# Fuel and transmission types depicted through a pie chart



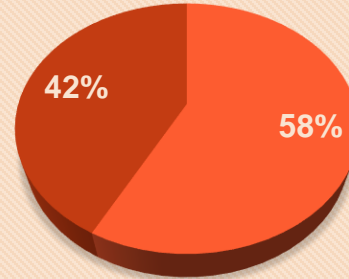
## Fuel Types



■ Petrol ■ Diesel



## Transmission Type



■ Manual ■ Automatic





# Analysis Summary Table

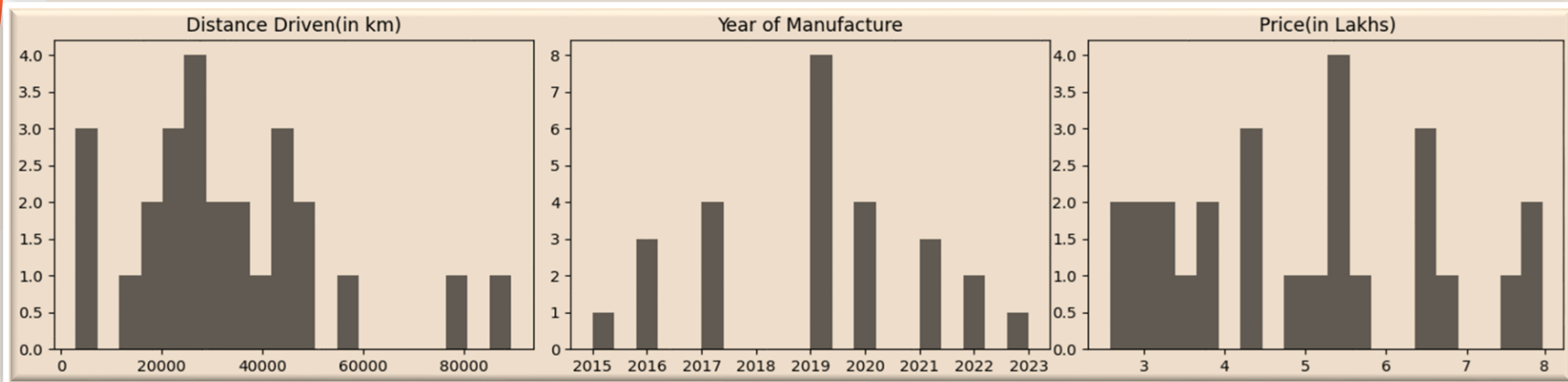
	Distance Driven(in km)	Year of Manufacture	Price(in Lakhs)
count	26.000000	26.000000	26.000000
mean	33241.000000	2018.961538	4.933077
std	20687.973498	2.087693	1.616272
min	2908.000000	2015.000000	2.580000
25%	22441.500000	2017.000000	3.480000
50%	29035.500000	2019.000000	4.955000
75%	44999.000000	2020.000000	6.237500
max	89514.000000	2023.000000	7.970000



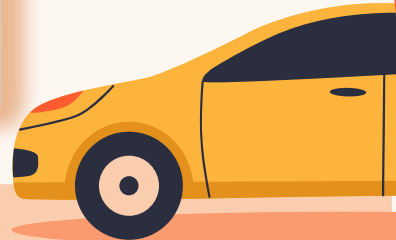
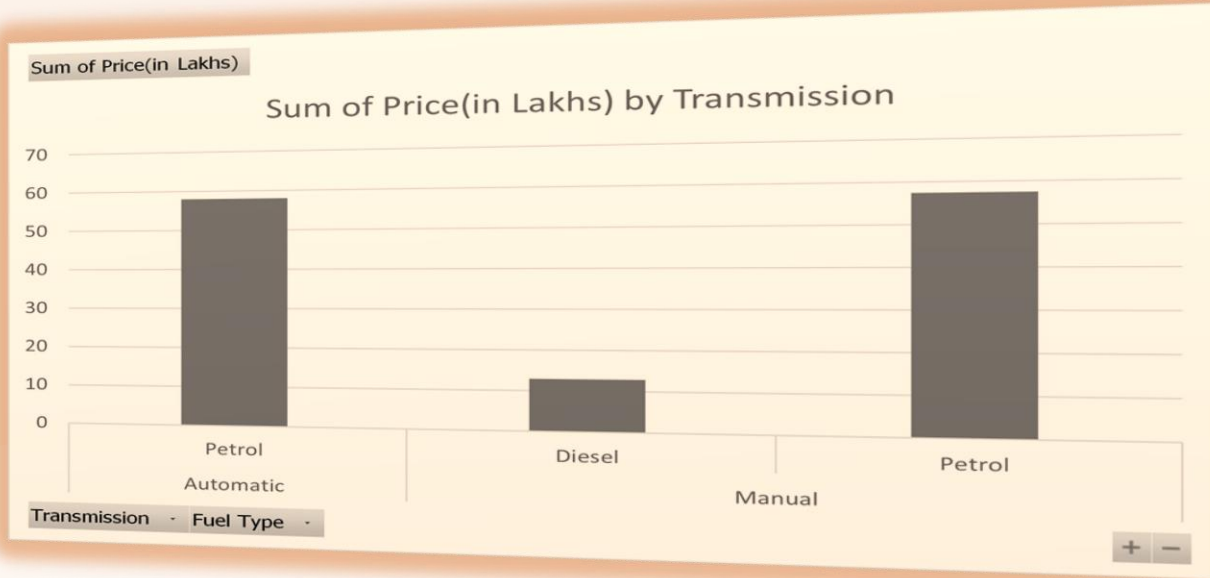


# Analysis of Data Distribution Using a Histogram Chart

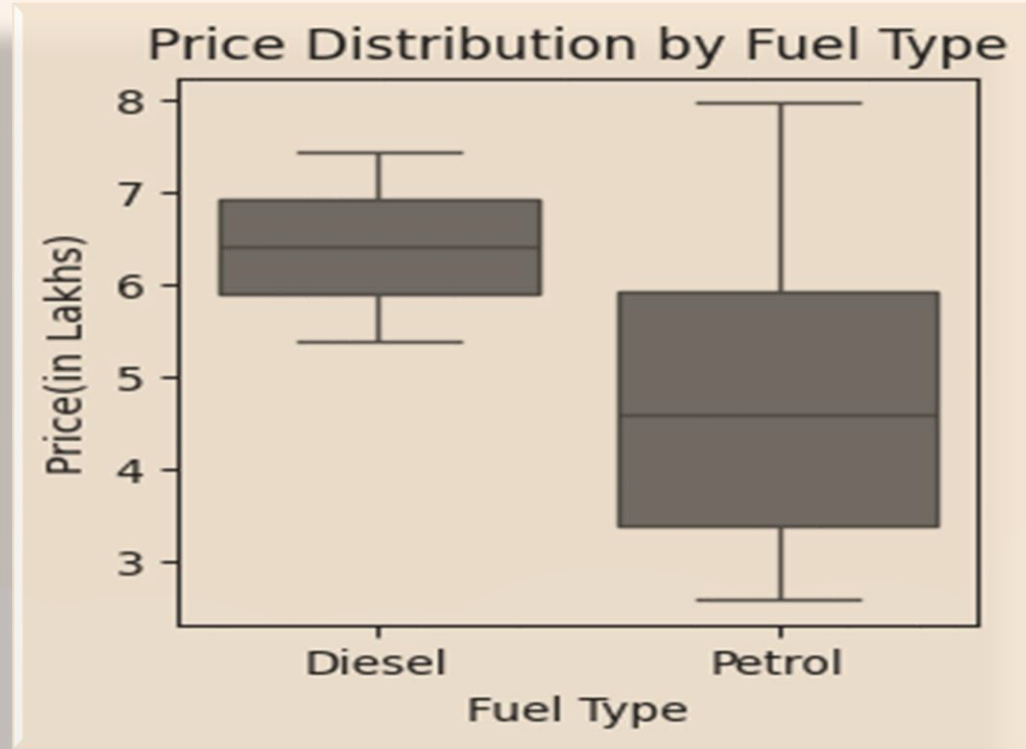
0582



# Total Price Summarized by Transmission Type



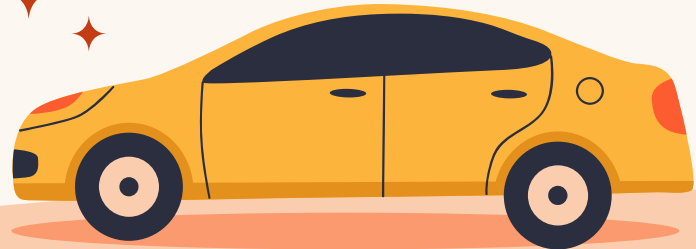
# Price Distribution Across Different Fuel Types





# Summary

- ❑ There are a total of **26 Renault Cars**.  
Out of which Petrol Fuel type cars are majority in number.
- ❑ **2019** year of manufacture cars are mostly for sale.
- ❑ **Manual and Automatic petrol** cars are priced high compared to Diesel manual cars.





# Thanks!

In summary, our analysis of used Renault cars at Cars24 has highlighted key insights across metrics such as year of manufacture, kilometers driven, fuel type, transmission, and price. These findings inform actionable strategies to better meet market demands and customer preferences. Thank you for your attention as we look forward to applying these insights for future success

