



About me:

- Name - Raja Avinash
- Qualification - B.tech(CSE) (Pursuing)

- Name - B.Aravind Reddy
- Qualification - B.tech(ECE) 2021

WEB SCRAPING

Presented by :Raja Avinash

Why web scraping?

- **Lead Generation for Marketing.**
- **Price Comparison & Competition Monitoring.**
- **Training and Testing Data for Machine Learning Projects**
- **Stock Marketing Odds Analysis**

Extracting the data

- Web pages contain large amount of data which can be extracted.
- We used python to extract the data from web page.
- Whole data including HTML code is extracted from web page.
- Then using certain libraries data is arranged in an order.

Data Analysis

- Then arranged data according to requirement in data frame.

	company	car_model	about_car	price	offer	previous_price	downpayment	EMI
0	2009 Toyota CamryW4 AT Automatic	W4 AT Automatic	99,864 km1st OwnerPetrol	₹307,299	₹5,000 OFF	₹312,299	Zero downpayment	₹6,836/month
1	2020 Skoda Rapid1.0 AMBITION TSI MT Manual	1.0 AMBITION TSI MT Manual	6,981 km1st OwnerPetrol	₹901,299	₹5,000 OFF	₹906,299	Zero downpayment	₹20,049/month
2	2017 Maruti DzireZXI AMT Automatic	ZXI AMT Automatic	92,719 km1st OwnerPetrol	₹717,899	₹38,000 OFF	₹755,899	Zero downpayment	₹15,969/month
3	2020 Hyundai VENUES MT 1.2 KAPPA Manual	S MT 1.2 KAPPA Manual	547 km1st OwnerPetrol	₹826,399	₹5,000 OFF	₹831,399	Zero downpayment	₹18,383/month
4	2018 Honda WR-V1.2 i-VTEC VX MT Manual	1.2 i-VTEC VX MT Manual	16,631 km1st OwnerPetrol	₹850,899	₹31,000 OFF	₹881,899	Zero downpayment	₹18,928/month
...
435	2019 Renault KwidRXT Opt Manual	RXT Opt Manual	4,523 km1st OwnerPetrol	₹381,799	₹29,000 OFF	₹410,799	Zero downpayment	₹8,493/month
436	2015 Hyundai EonERA PLUS Manual	ERA PLUS Manual	20,419 km1st OwnerPetrol	₹311,699	₹17,000 OFF	₹328,699	Zero downpayment	₹6,934/month
437	2015 Hyundai Grand i10ASTA 1.2 VTVT Manual	ASTA 1.2 VTVT Manual	80,058 km1st OwnerPetrol	₹387,099	₹19,000 OFF	₹406,099	Zero downpayment	₹8,611/month
438	2019 Maruti DzireVXI Manual	VXI Manual	19,015 km1st OwnerPetrol	₹653,799	₹16,000 OFF	₹669,799	Zero downpayment	₹14,543/month
439	2016 Maruti BalenoDELTA 1.2 K12 AT Automatic	DELTA 1.2 K12 AT Automatic	26,581 km1st OwnerPetrol	₹591,099	₹34,000 OFF	₹625,099	Zero downpayment	₹13,149/month

440 rows × 8 columns

- Then the data in csv file is visually presented.
- After saving in csv file , the data is cleaned.
- Whole data is presented in data frame.
- Then the data is cleaned as required

DATA



SORTED



ARRANGED



PRESENTED
VISUALLY



PHOTOGRAPHY BY BRANDON ROSSEN PHOTOGRAPHY WWW.BRANDENROSSEN.COM @BRANDENROSSEN

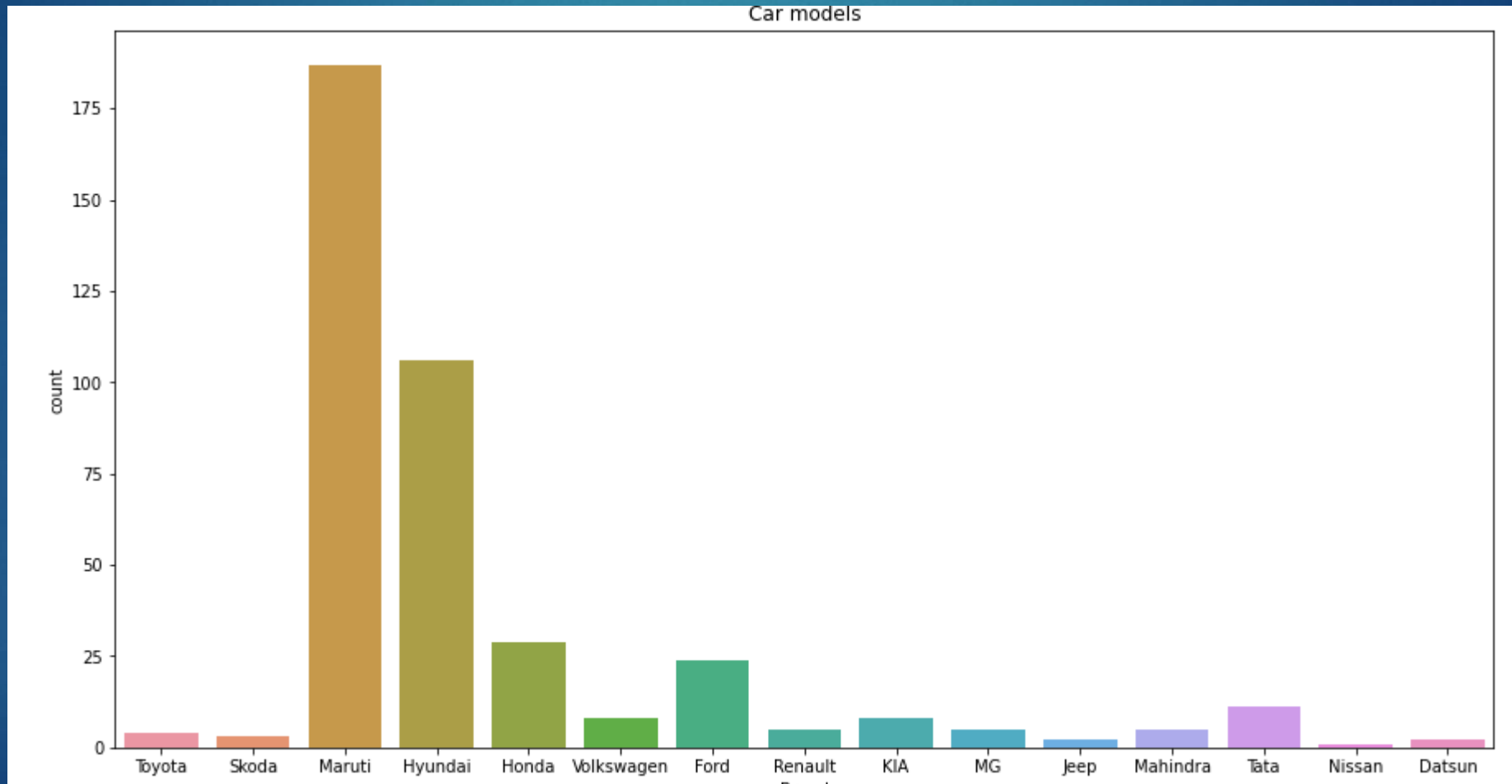
- Data is visually presented in different types

	car_model	price	offer	previous_price	downpayment	EMI_pre_month	year of model	Brand	fuel type	Owner	Kilometers	Manual/Automatic
0	CamryW4 Manual	307299	5000	312299	0	6836	2009	Toyota	Petrol	1st	99864	Automatic
1	RapidManual AMBITION TSI Manual	901299	5000	906299	0	20049	2020	Skoda	Petrol	1st	6981	Manual
2	DzireZXI Manual	717899	38000	755899	0	15969	2017	Maruti	Petrol	1st	92719	Automatic
3	VENUES Manual Manual KAPPA	826399	5000	831399	0	18383	2020	Hyundai	Petrol	1st	547	Manual
4	WR-VManual i- VTEC VX Manual	850899	31000	881899	0	18928	2018	Honda	Petrol	1st	16631	Manual
7	PoloTrendline Manual L Petrol	506499	41000	547499	0	11267	2018	Volkswagen	Petrol	1st	43686	Manual
8	Creta1.6 SX CRDI	907699	48000	955699	0	20191	2015	Hyundai	Diesel	1st	110584	Manual
9	VENUEManual TURBO GDI SX+ Manual	1081099	6000	1087099	0	24048	2019	Hyundai	Petrol	1st	26448	Automatic
10	i20 ActiveManual S	582699	23000	605699	0	12962	2017	Hyundai	Petrol	1st	57900	Manual

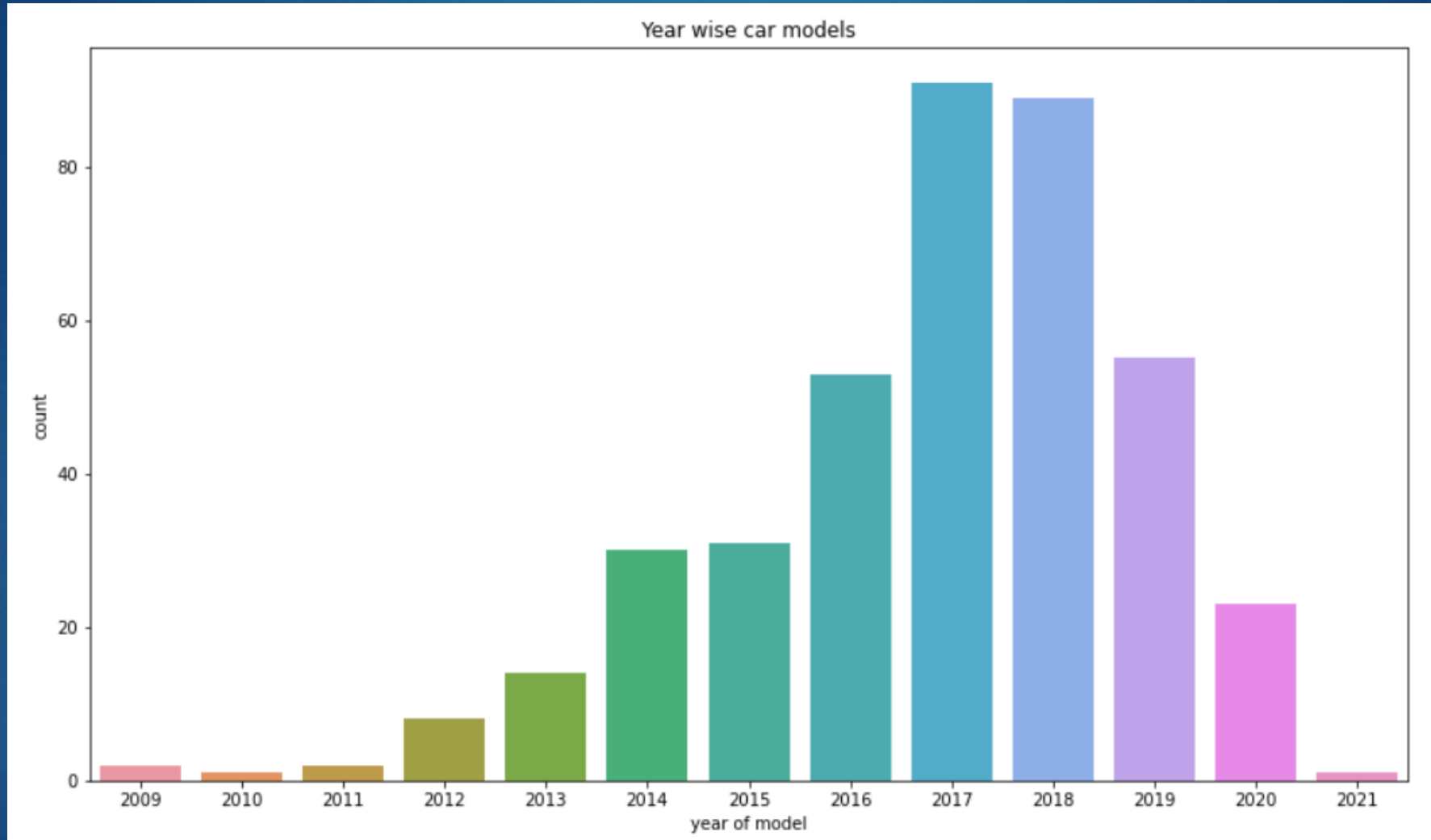
Elite i20ASTA

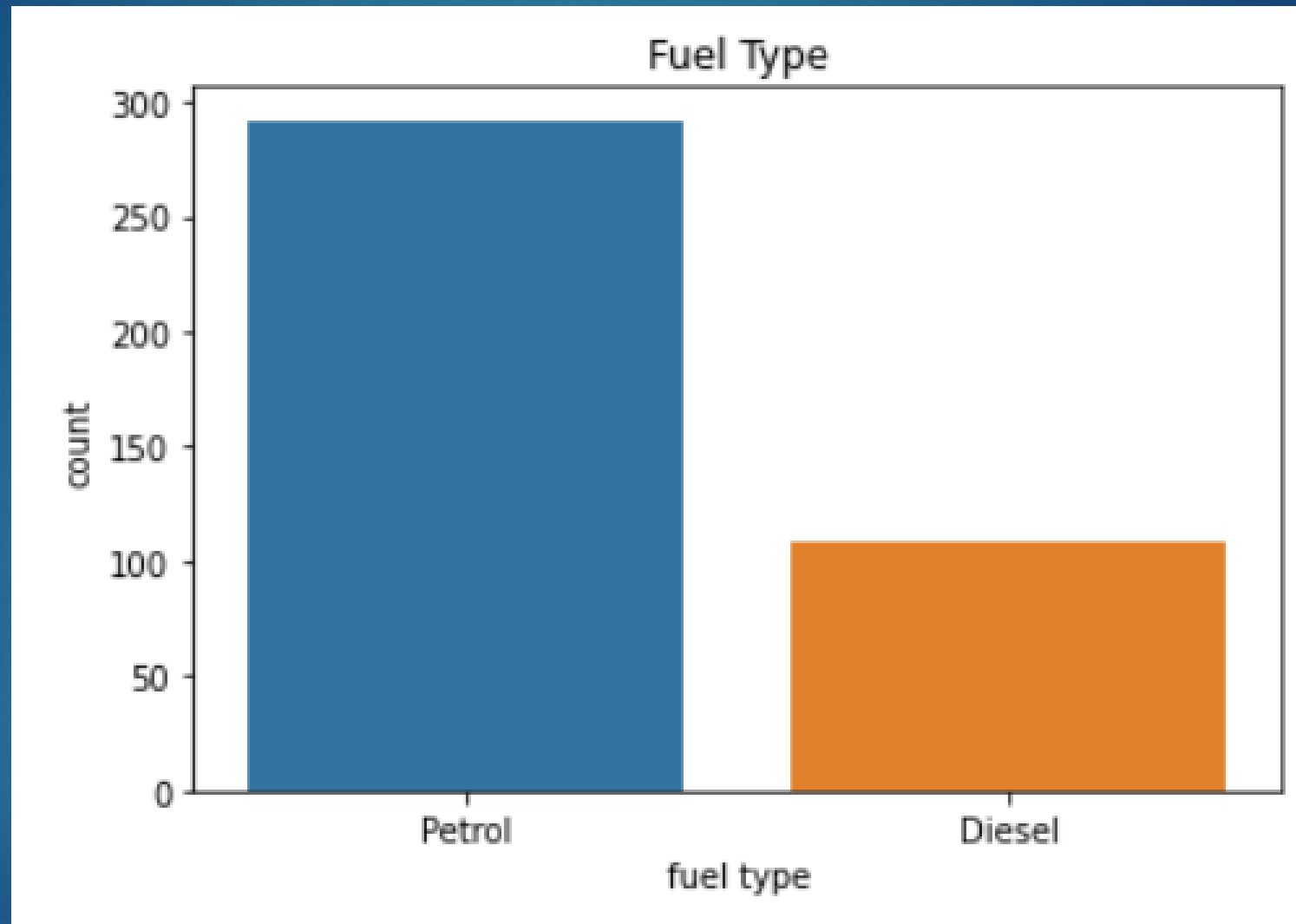
VISUALISATION

Count plot

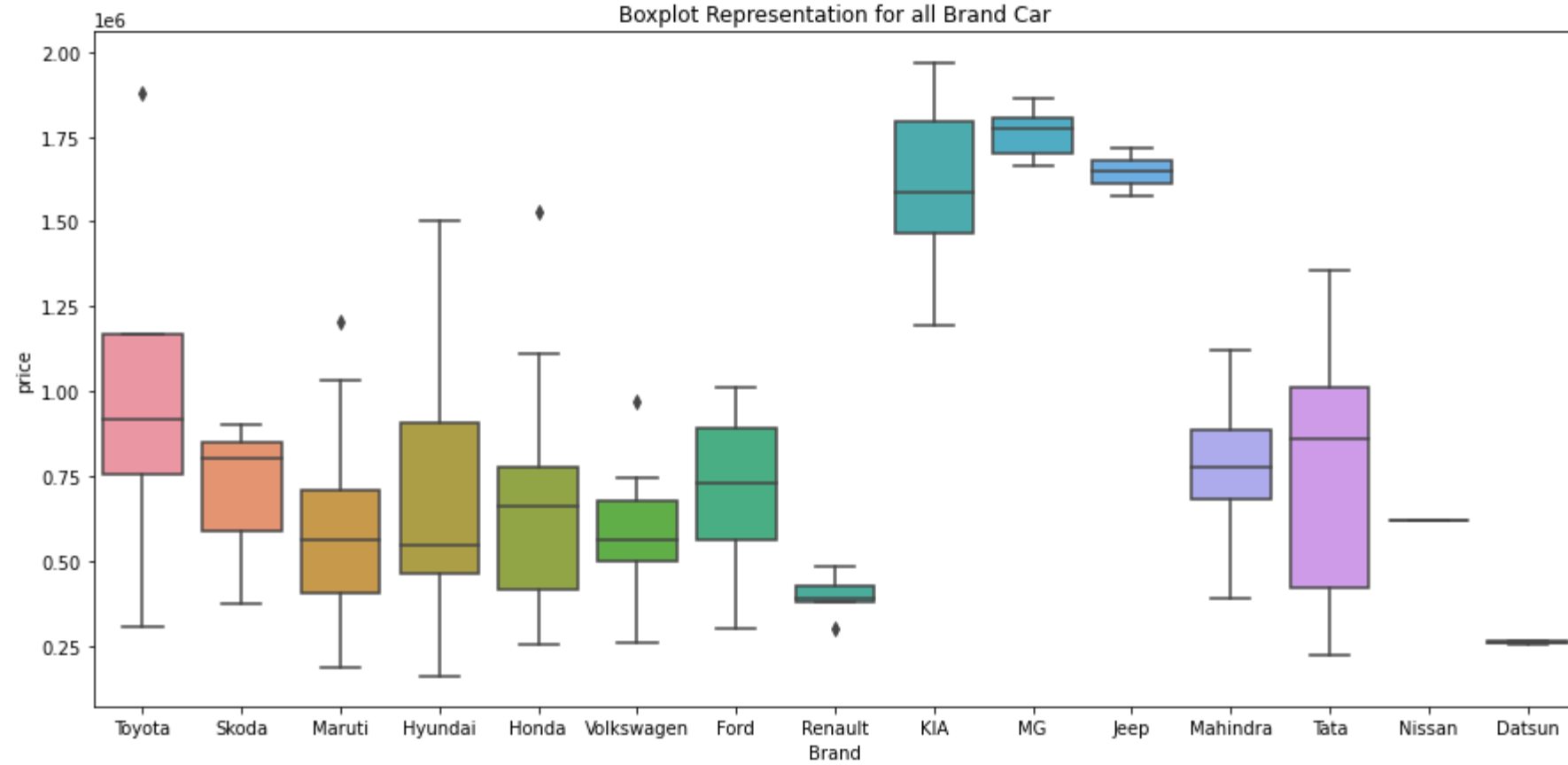


Count plot on Year-wise Car models

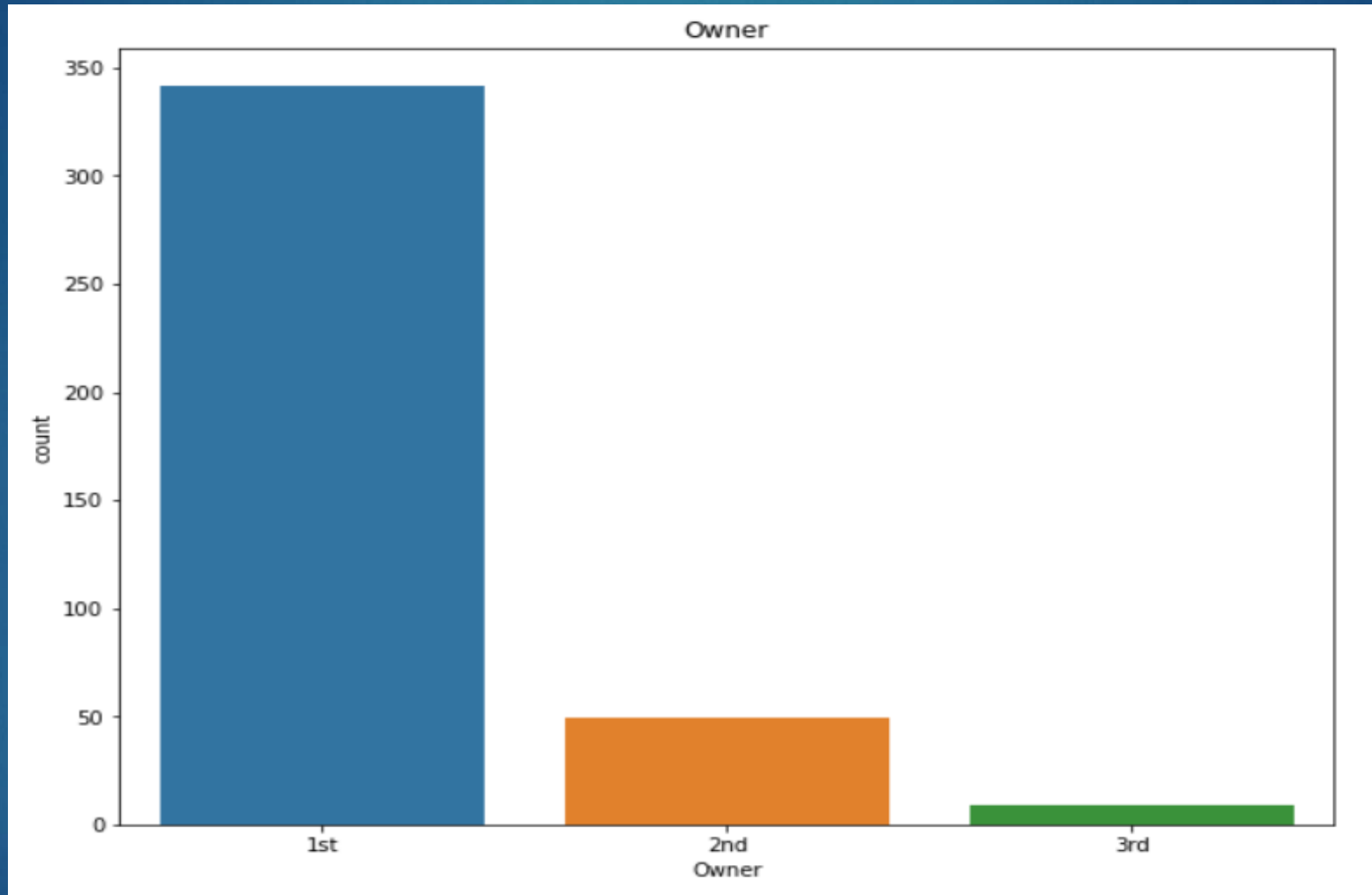


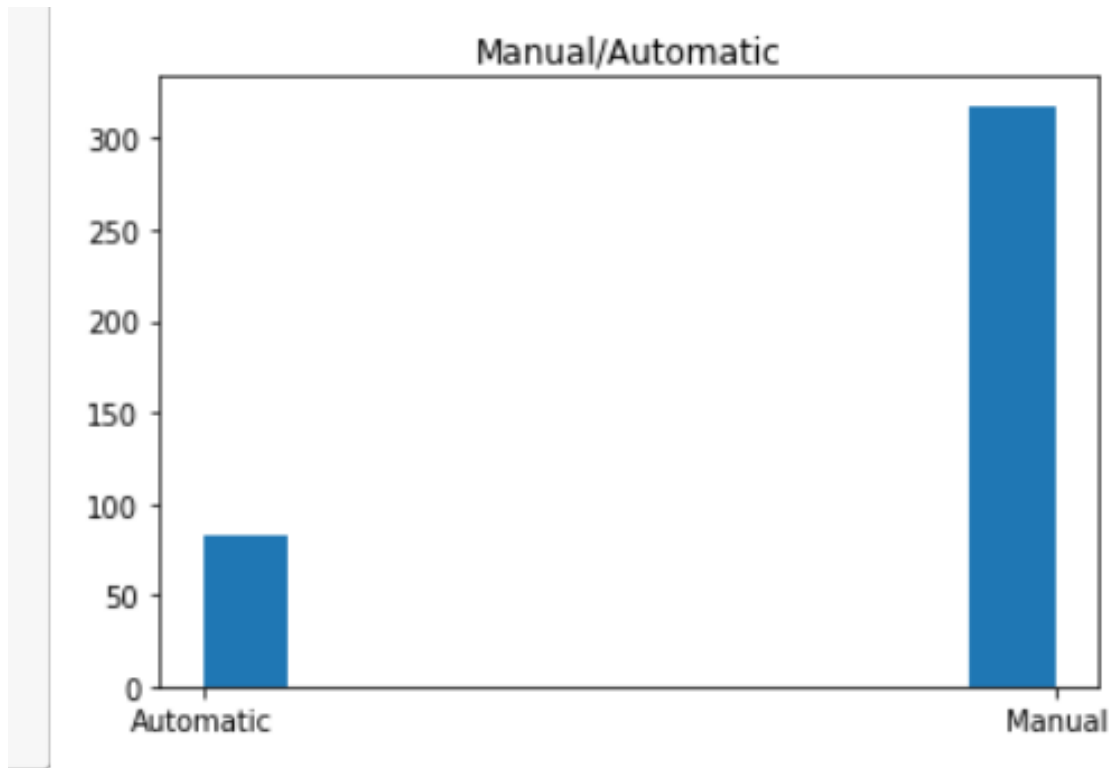


Box plot



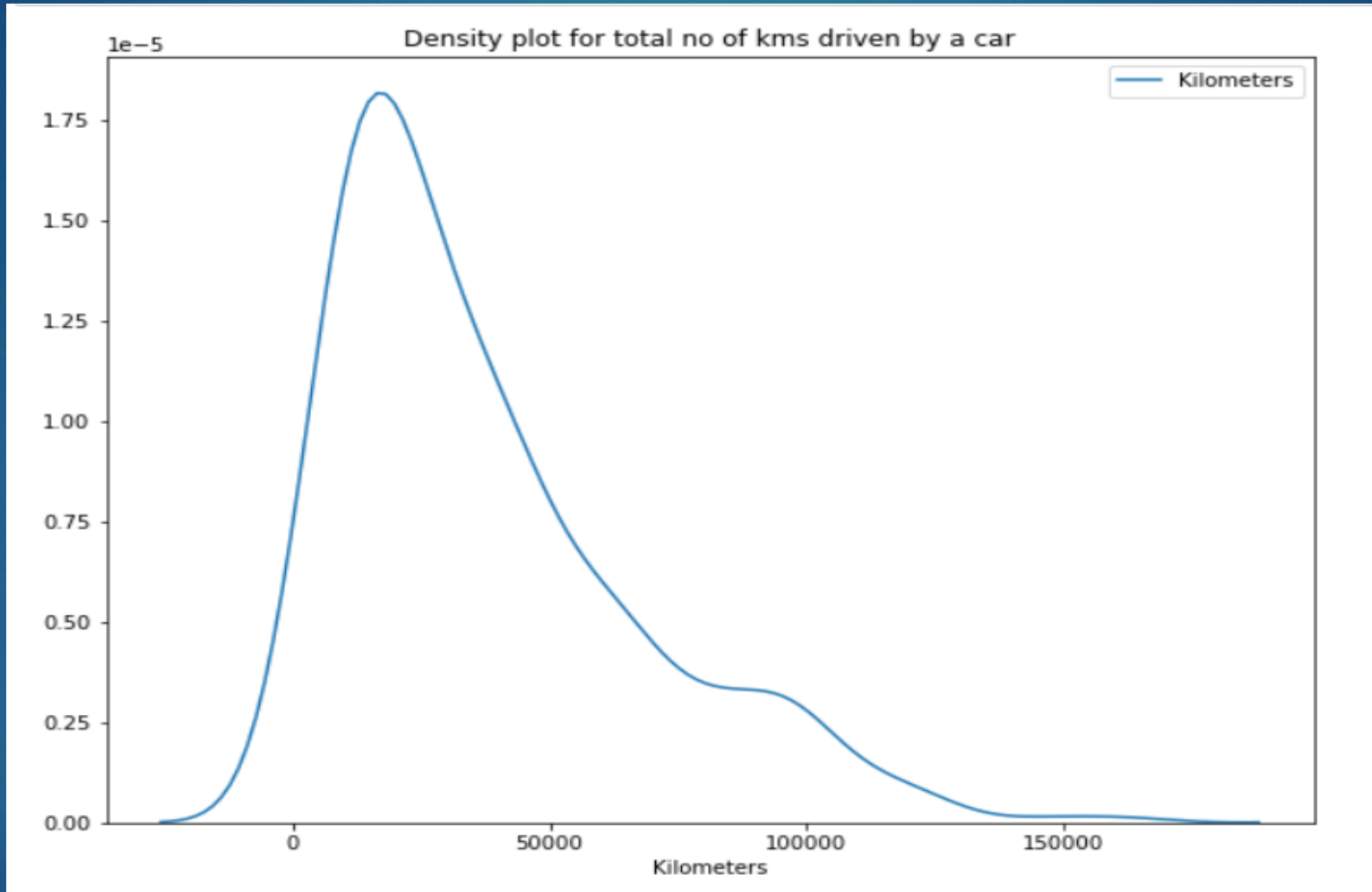
Ownership



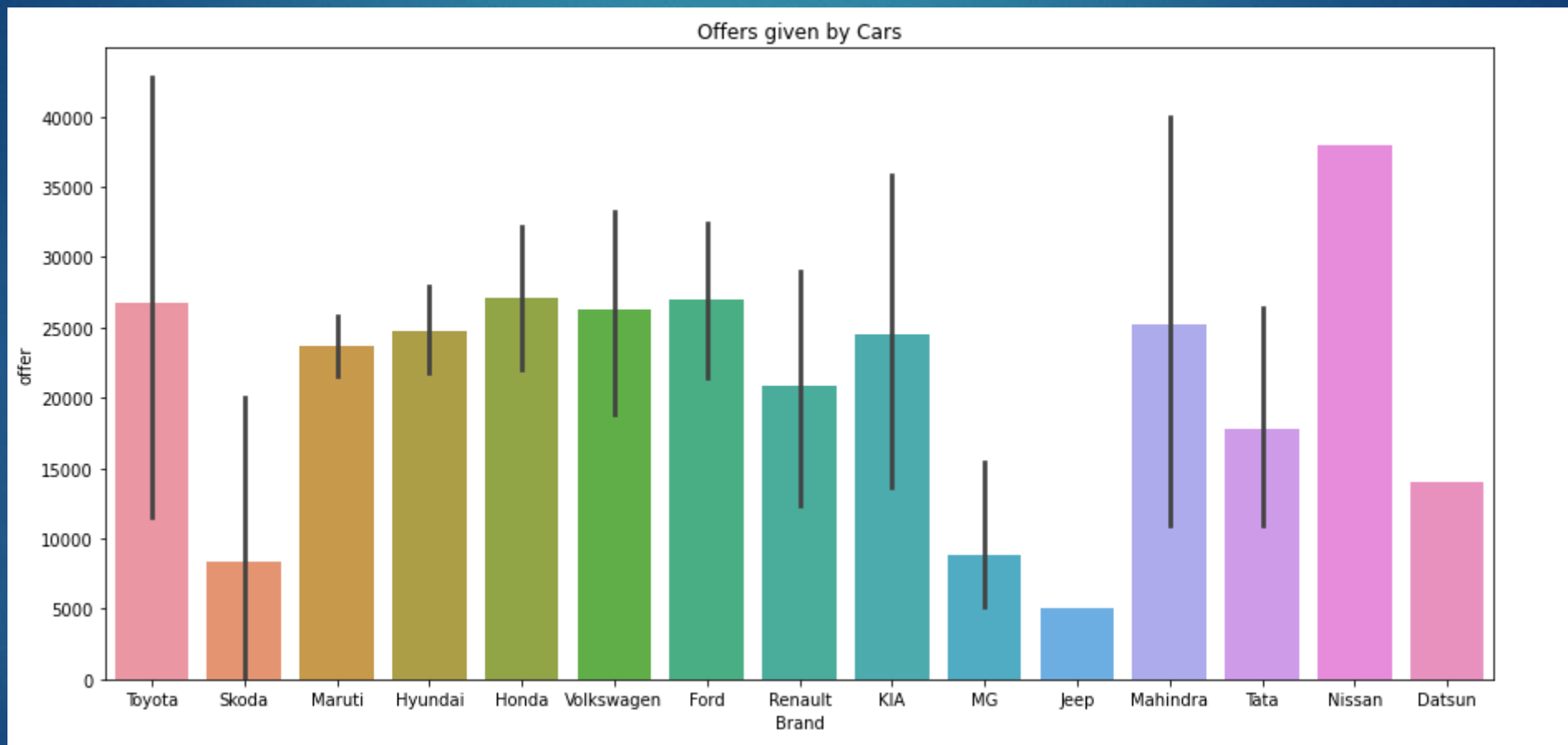


How many
cars are
Automatic and
Manual in or
dataframe

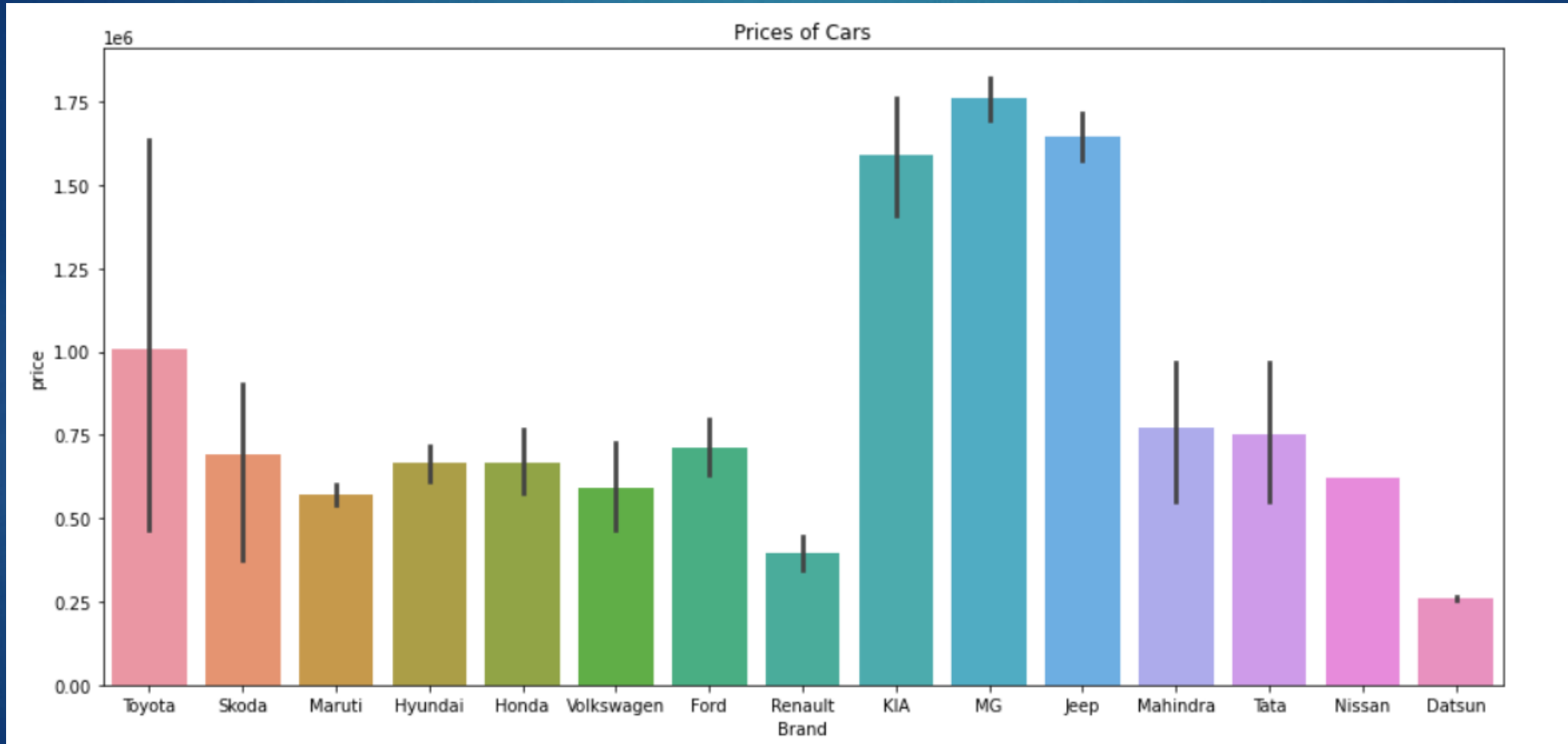
Kde plot



Bar plot



Bar plot on Brands and Prices



CONCLUSION

By presenting this data visually

- Data is easily understood.
- Instead of checking full webpage data can we seen in single data frame.
- This helps in changes to be done in the business.

THANK YOU

