

DATA ANALYSIS PROJECT -1

ANALYSIS-3

SUMMARY

In Analysis-3

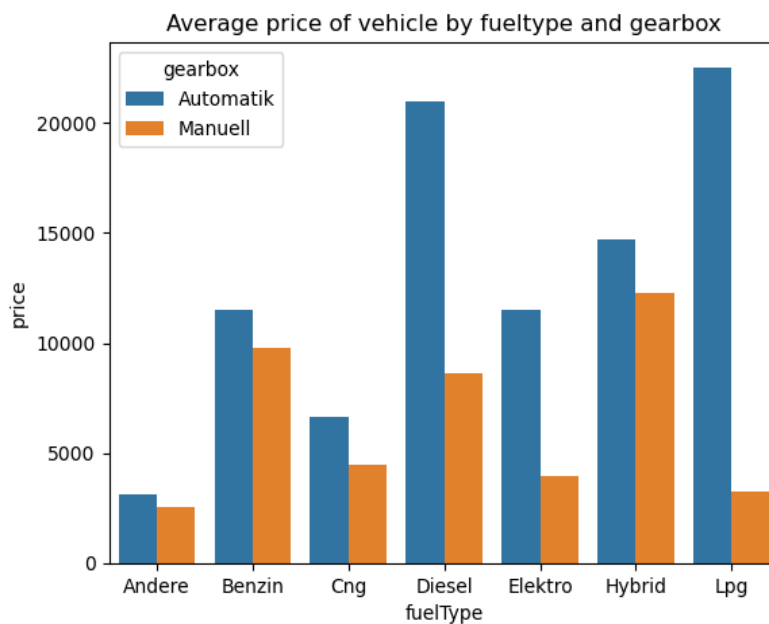
- The average price of vehicles data categorised by their gearbox and fuel type.
- The average price of vehicle by automatic is more from “LPG” and manual is from “Hybrid” fuel type and gearbox.
- Secondly, the average power of vehicles categorised by their vehicle types and gearbox.
- The average power of vehicle is from “Coupe” by vehicle type and gearbox.
- The average prices of vehicles based on their prices and vehicle type.
- This data aids in making informed decisions, which ones are more budget friendly, enabling businesses and consumers to strategize effectively in the competitive market.
- Over all, it enabling businesses and market trends for allowing sellers and buyers to get an idea which is better to buy these analysis.

REPORT

1.

avg_price_of_vehicle

	fuelType	gearbox	price
0	Andere	Automatik	3127.185185
1	Andere	Manuell	2543.164062
2	Benzin	Automatik	11512.902986
3	Benzin	Manuell	9799.083665
4	Cng	Automatik	6631.000000
5	Cng	Manuell	4461.487572
6	Diesel	Automatik	20971.145118
7	Diesel	Manuell	8650.747973
8	Elektro	Automatik	11522.909091
9	Elektro	Manuell	3944.888889
10	Hybrid	Automatik	14715.969697
11	Hybrid	Manuell	12278.607843
12	Lpg	Automatik	22535.269211
13	Lpg	Manuell	3229.065881

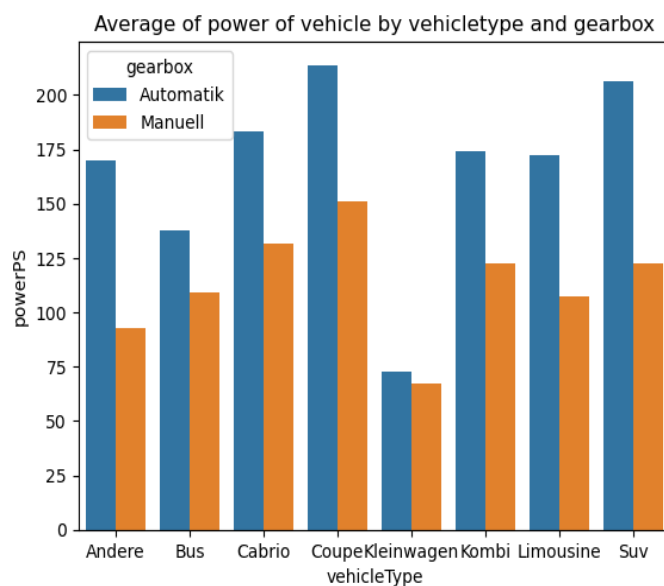


- The bar plot visualises the average price of vehicles categorised by their gearbox and fuel type. The average price of vehicle by automatic is more from “LPG” and manual is from “Hybrid” fuel type and gearbox. This plot explains that, it is valuable for understanding the price characteristics of different fuel types and gearboxes.

2.

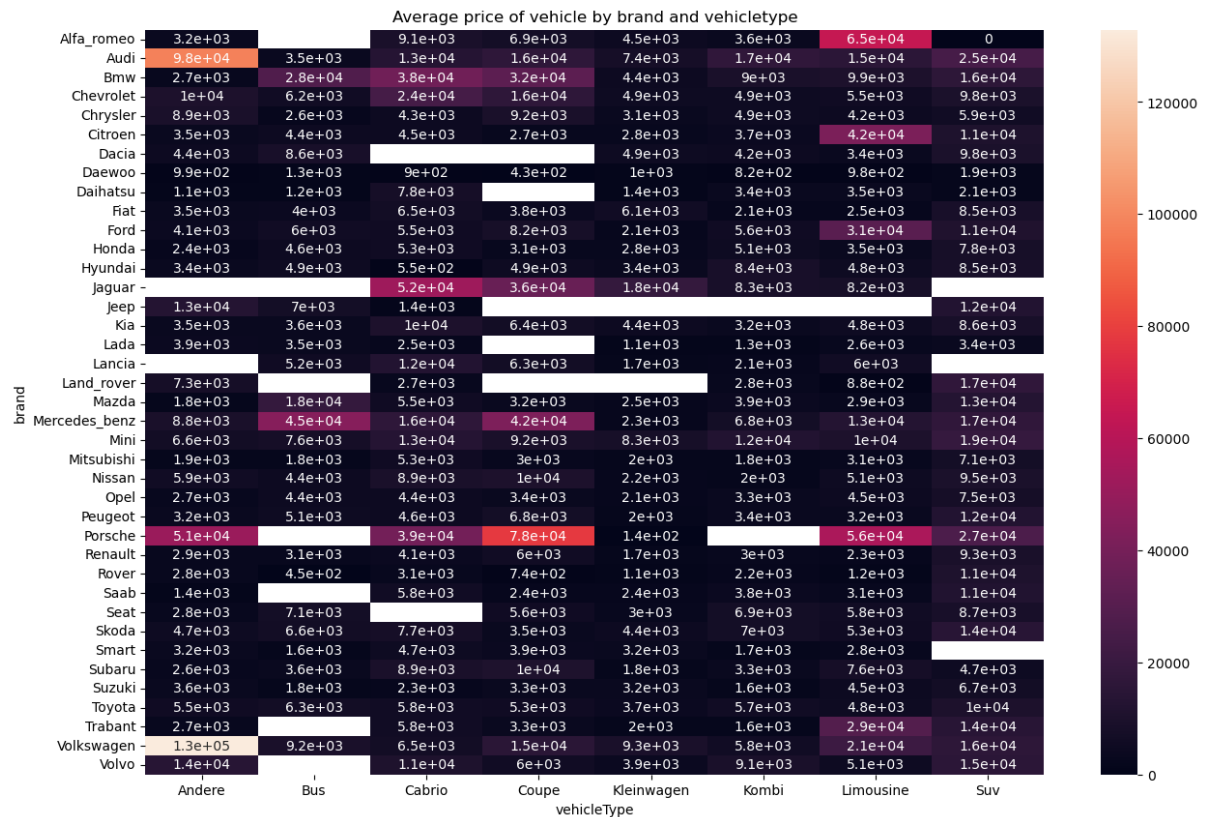
avg_power_of_vehicle

	vehicleType	gearbox	powerPS
0	Andere	Automatik	169.656766
1	Andere	Manuell	92.989595
2	Bus	Automatik	137.887810
3	Bus	Manuell	109.218067
4	Cabrio	Automatik	183.224539
5	Cabrio	Manuell	131.526974
6	Coupe	Automatik	213.727427
7	Coupe	Manuell	150.958616
8	Kleinwagen	Automatik	72.619872
9	Kleinwagen	Manuell	66.977733
10	Kombi	Automatik	174.016733
11	Kombi	Manuell	122.535184
12	Limousine	Automatik	172.423369
13	Limousine	Manuell	107.419549
14	Suv	Automatik	205.997692
15	Suv	Manuell	122.461934



- The bar plot visualises the average power of vehicles categorised by their vehicle types and gearbox. The average power of vehicle is from “Coupe” by vehicle type and gearbox. This plot explains that, it is valuable for understanding the power characteristics of different vehicle types and gearboxes.

3.



- The heatmap visualising the average prices of vehicles based on their prices and vehicle type. By utilising colour gradients, it allows viewers to quickly identify brands and vehicle types with higher or lower average prices. This visualisation aids in making informed decisions, which ones are more budget friendly, enabling businesses and consumers to strategize effectively in the competitive market.