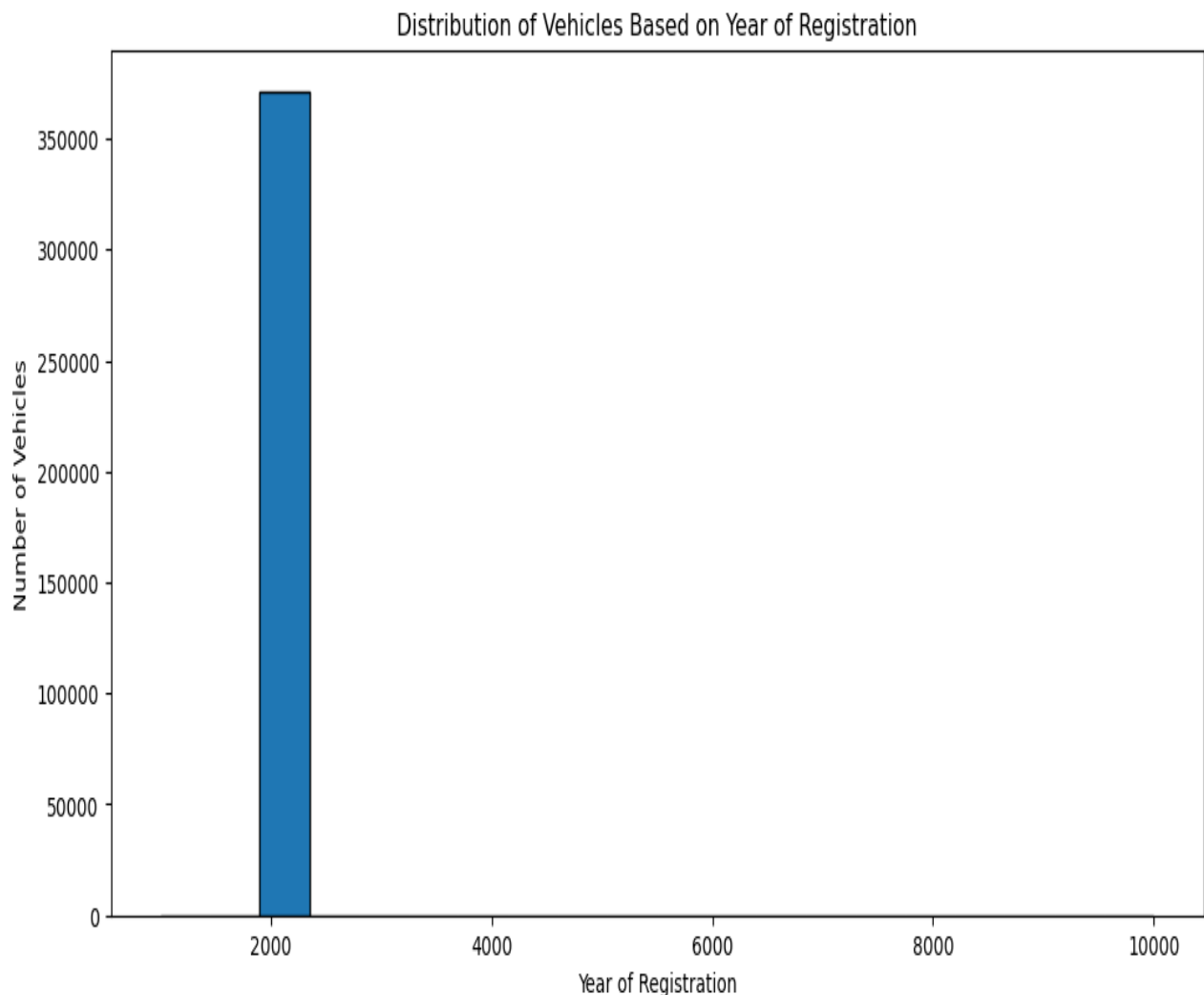
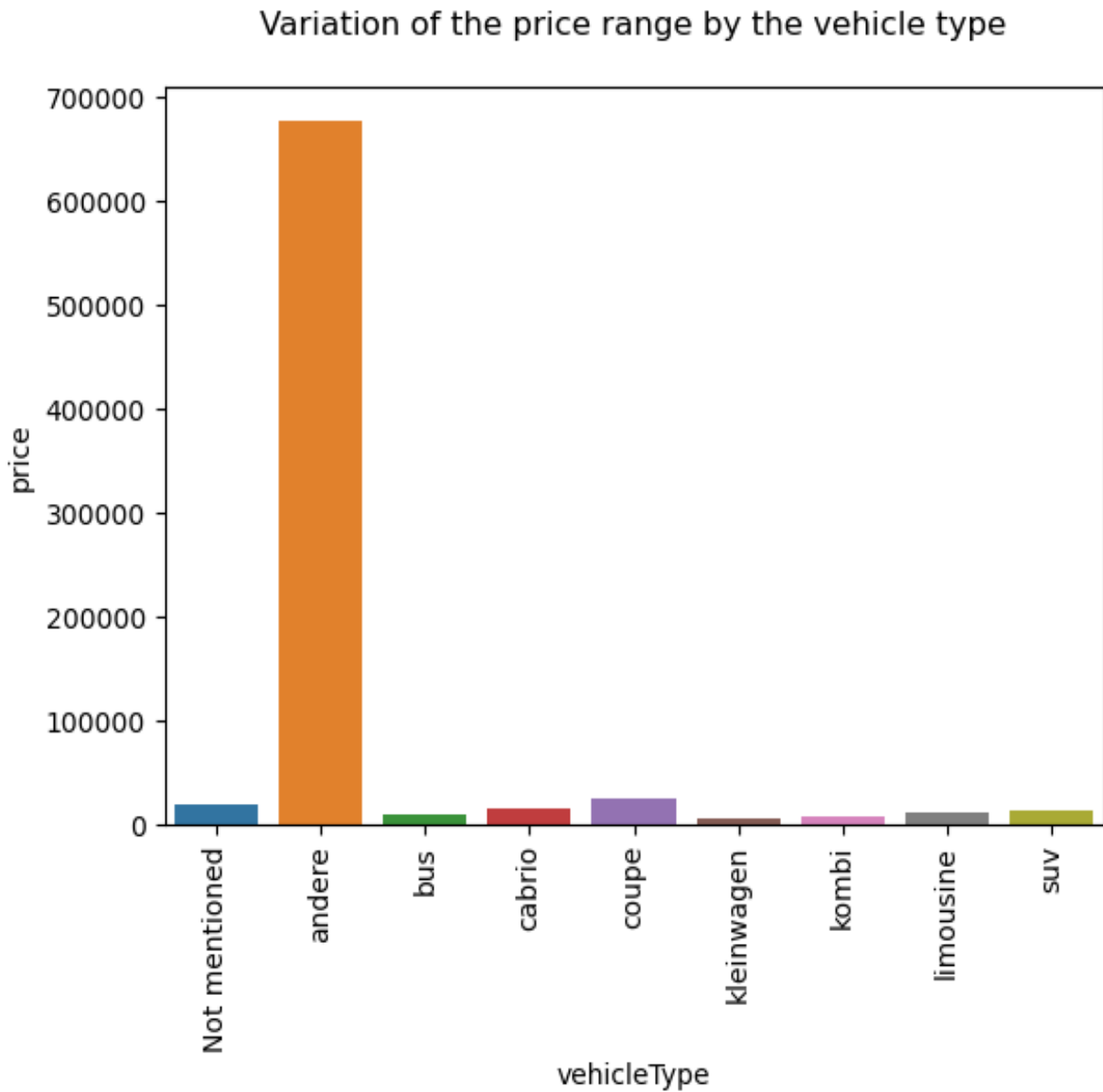


Summary of Data Analysis Project-1

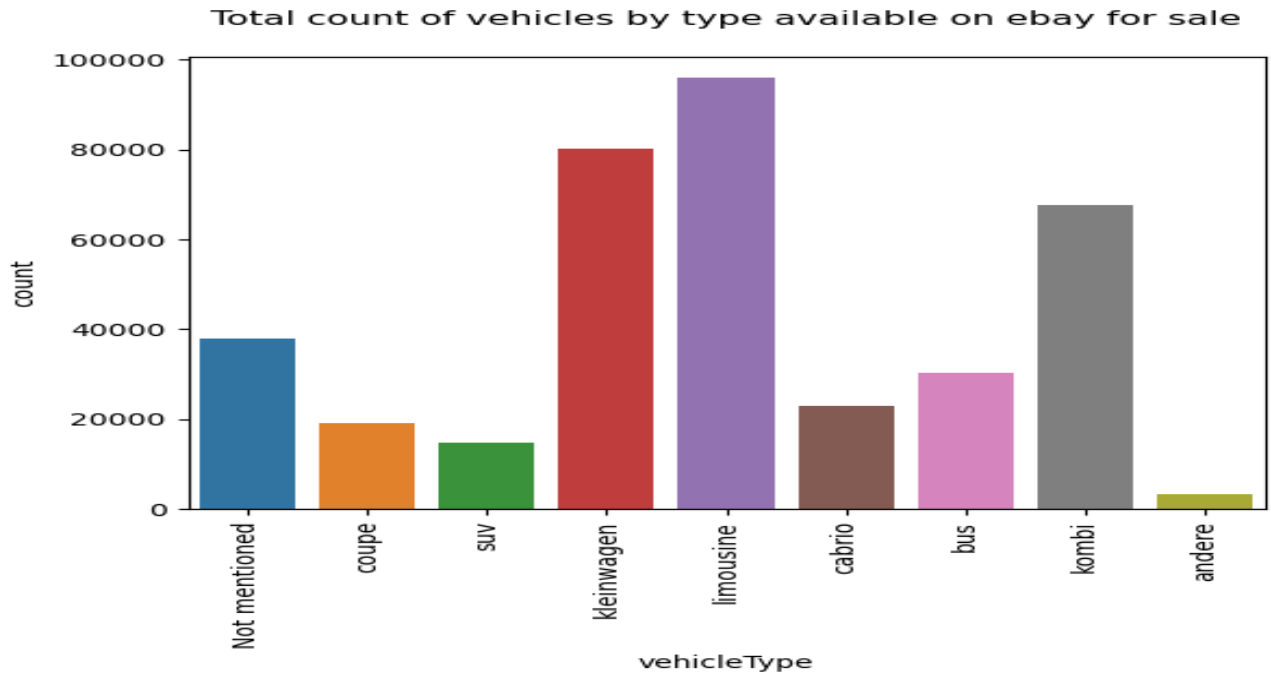
- 1) In the given data set there are totally 371528 rows and 20 columns
- 2) We have find out that in the all 20 columns for vehicle type column there are 37869 are null values and gearbox is 20209, model is 20484, fueltype is 33386,notRepaireddamage is 72060 null values
- 3)The null values are removed and specified with value and also duplicate values are removed the data set is cleaned perfectly



- In the above plot it shows the Distribution of vehicles based on year of registration where we can see the more number of vehicles are registered between 1900 and 2023.



- In the above plot shows the based on the Variation of the price range by the vehicle type. The andere vehicle type is having high price variation compare to other vehicle type.

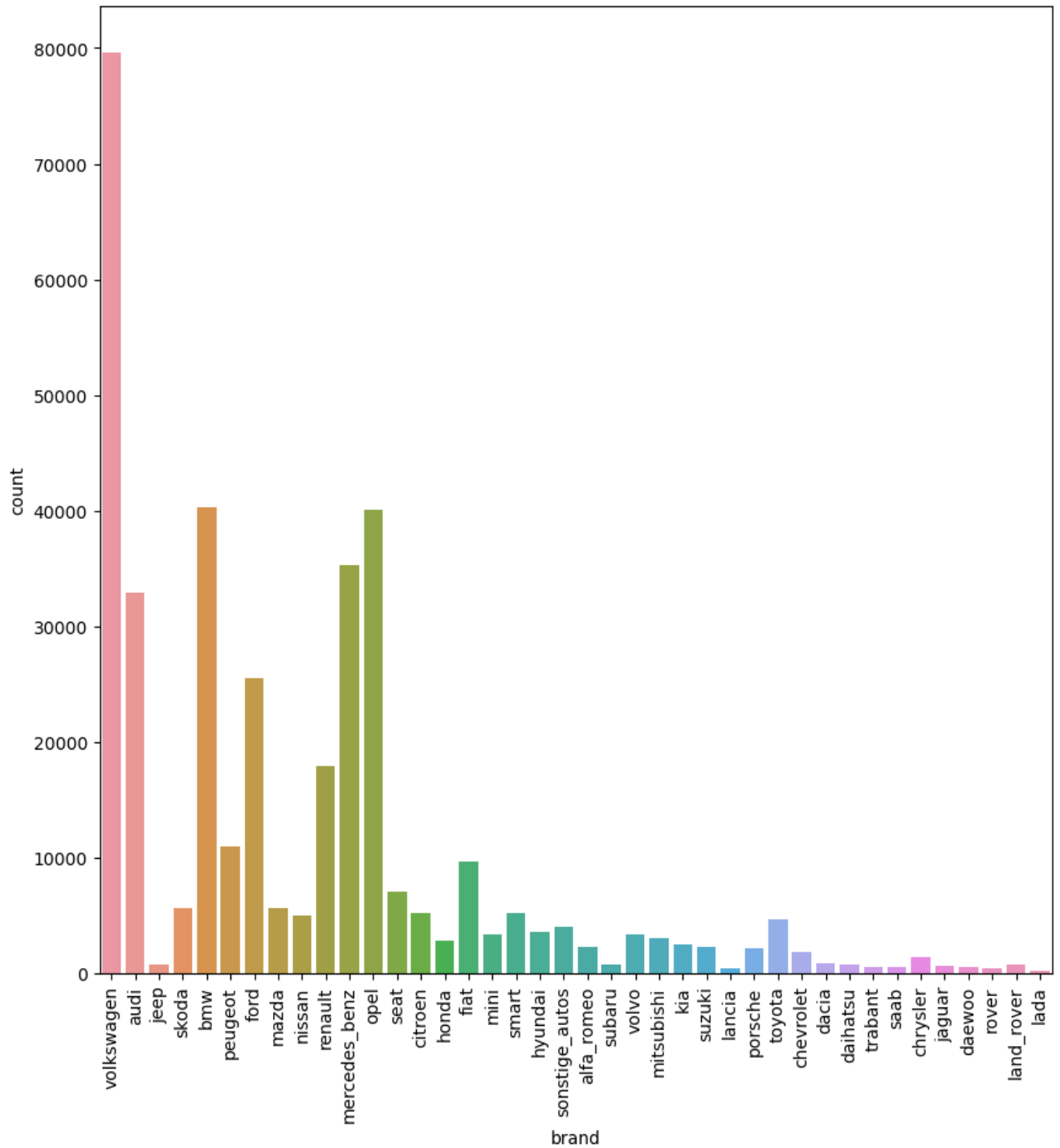


- In the above plot shows the Total count of vehicles by type available on ebay for sale. Kleinwagen and limousine stand at the top with the highest availability and suv, andere with the least availability.



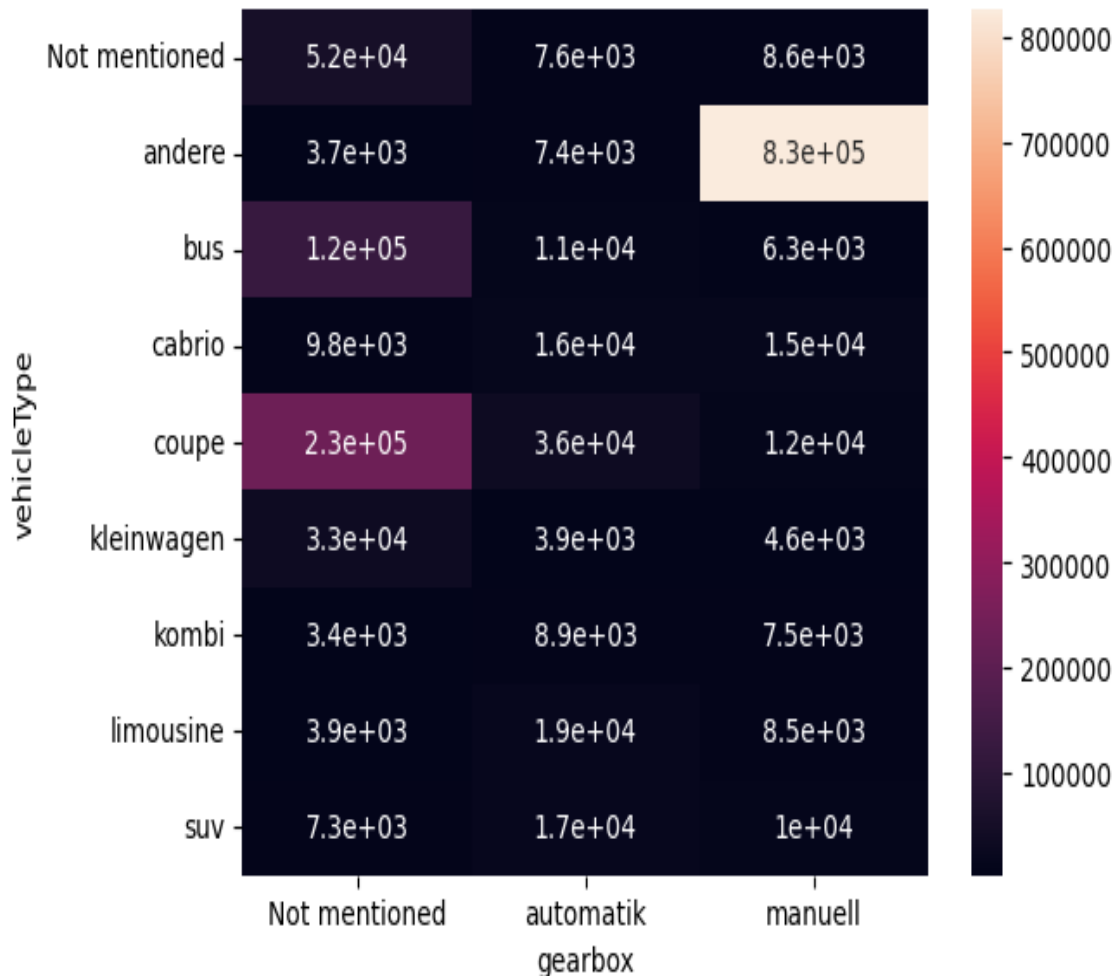
- In the above plot shows the relationship between dollar_price and kilometer. The heatmap is telling that both variables having same values so both are following joint probability and occurred at the same time.

No of Vehicles by Brand Available on ebay for sale

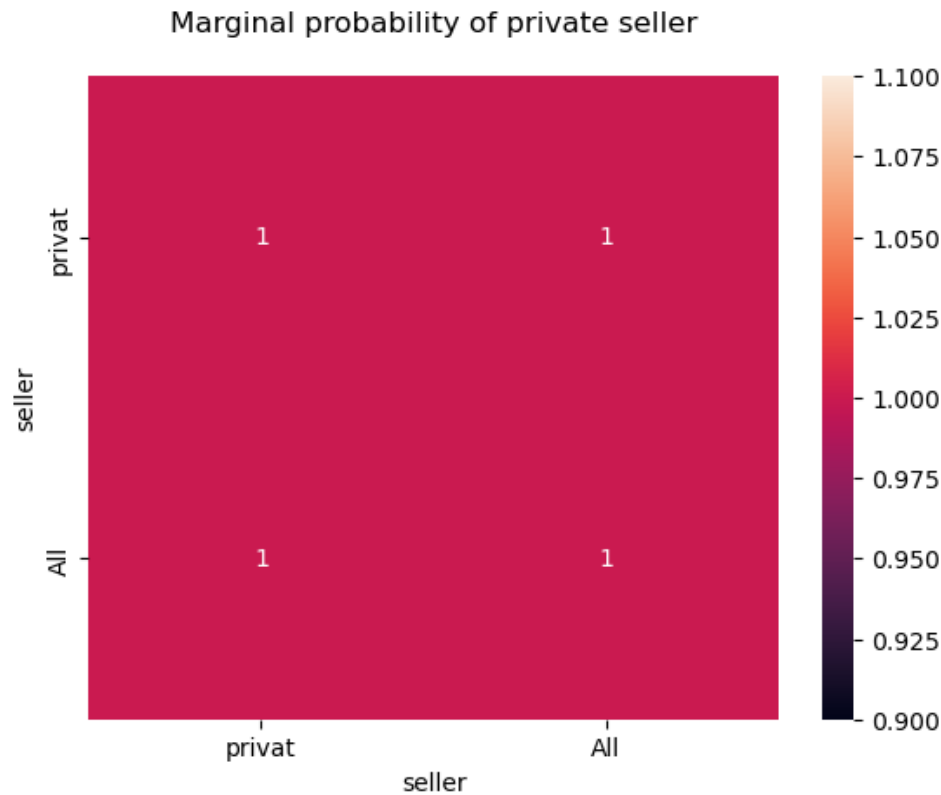


- In the above plot shows the no of vehicles by brand available on ebay for sale. Volkswagen and lada has the highest and lowest availability.

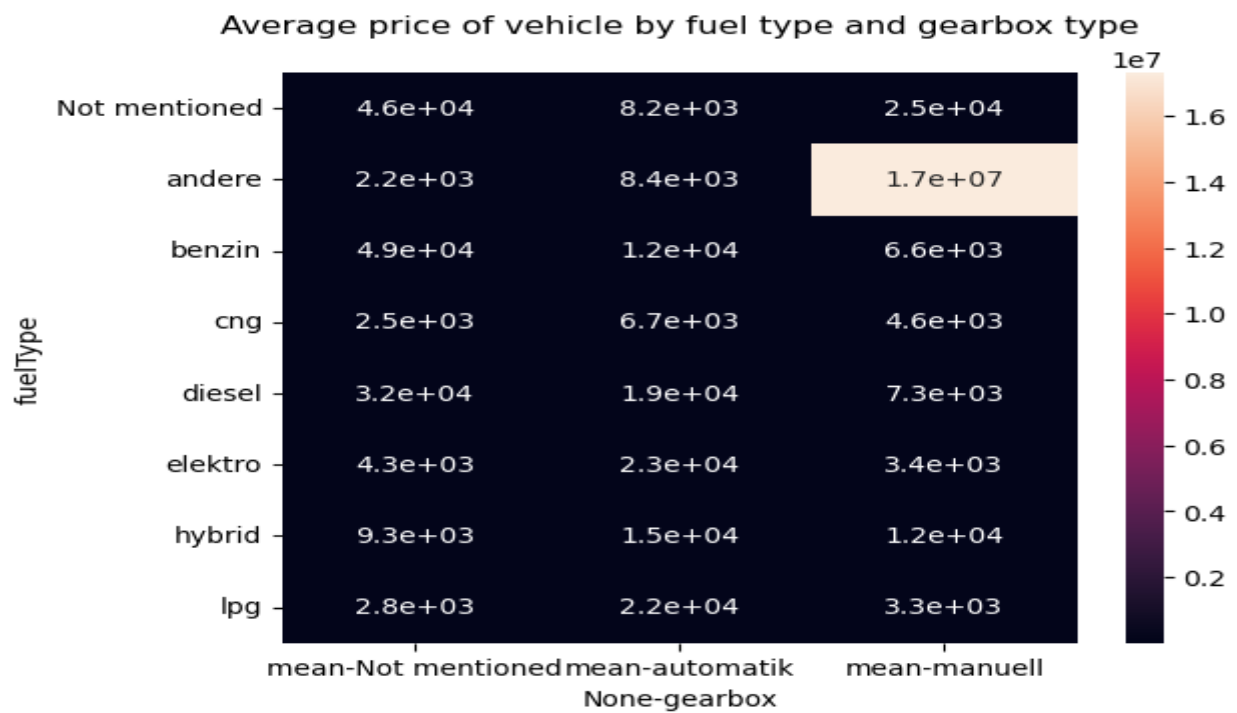
Average price for vehicles based on the type of vehicle as well as on the type of gearbox



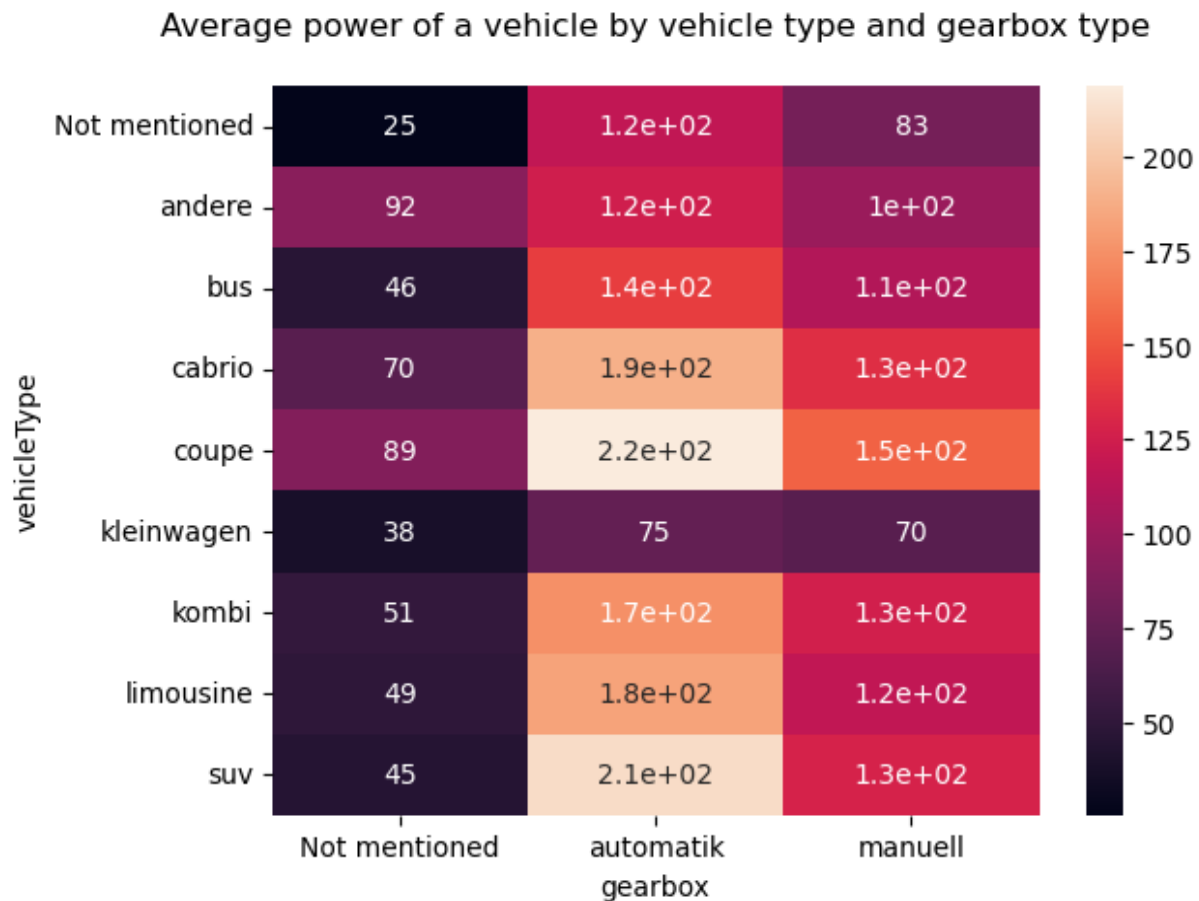
- In the above plot shows the Average price for vehicles based on the type of vehicle as well as on the type of gearbox. X-axis holds three gearbox types and y-axis holds different vehicle types and the values present in exponential form represent the averages or mean of prices corresponding to gearbox type and vehicle type.



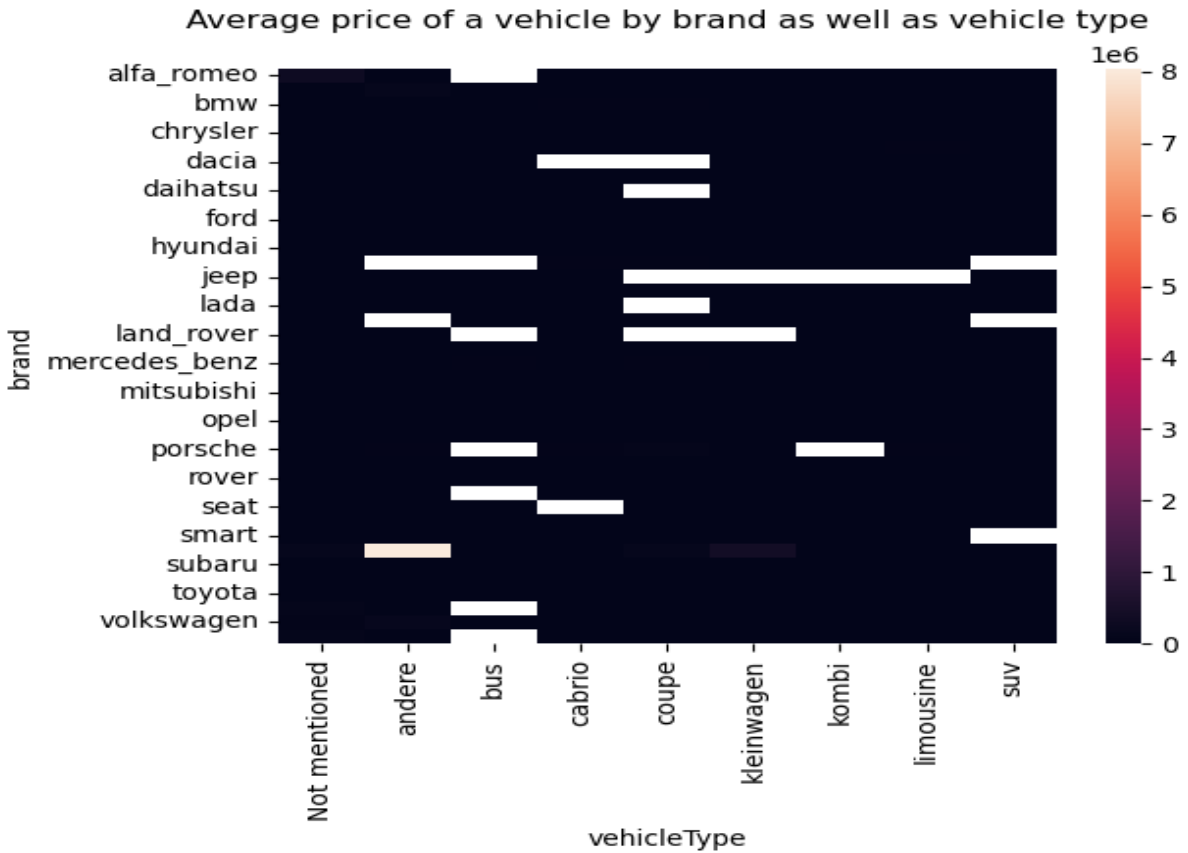
- In the above plot shows the marginal probability of private seller which is equal to 1.



- In the above plot shows the average price of vehicle by fuel type and gearbox type. Y-axis contains different fuel types and x-axis contains gearbox types and the mean or average prices of gearbox types.



- In the above plot shows the average power of a vehicle by vehicle type and gearbox type. Y-axis holds different vehicle types whereas x-axis has different gearbox types. The colour shades shows the density of points i.e. darker colours indicate highest average and lighter colours indicate lower average prices.



- In the above plot it shows the average price of a vehicle by brand as well as vehicle type.