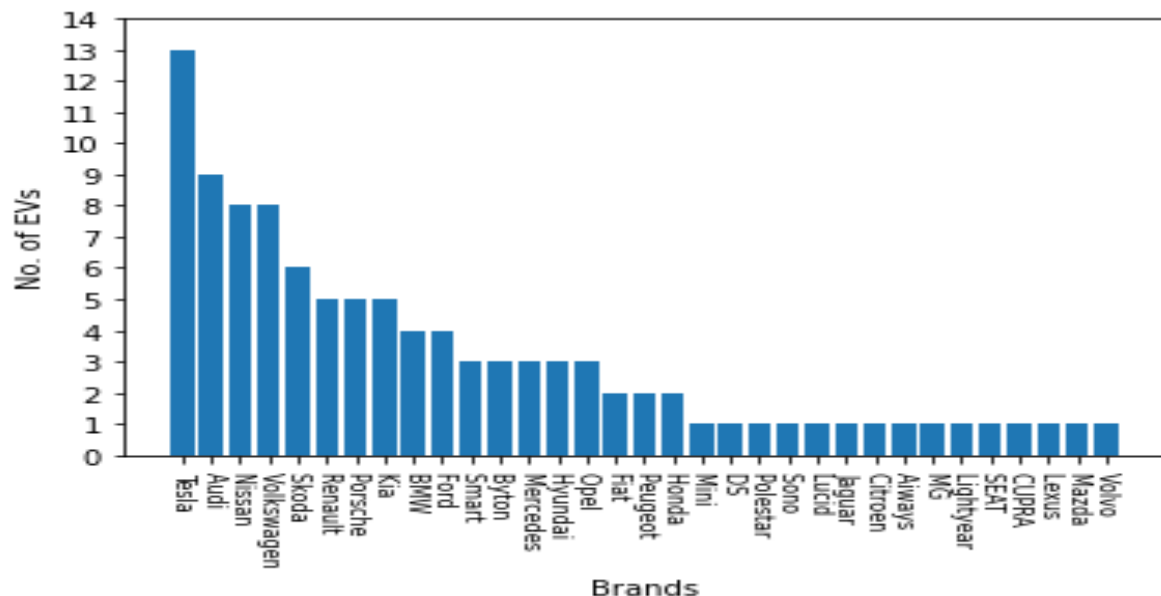


Analysis of Electric Vehicles (EVs) in Europe

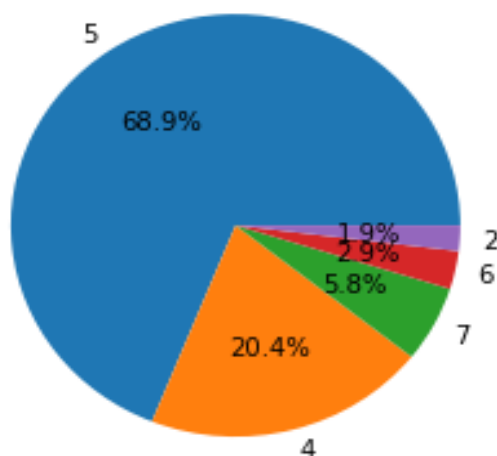
Electric Vehicles (EVs) are the future of road transportation. With the rapid depletion of fossil fuels and their contribution to pollution and global warming electric vehicles are a viable alternative that does the job efficiently and helps reduce the damage to the environment.

This report analyses various aspects of the EVs in Europe. We take a look at the types of EVs some top automobile manufacturers produce and their features like top speed, efficiency, prices, acceleration, number of seats, etc.



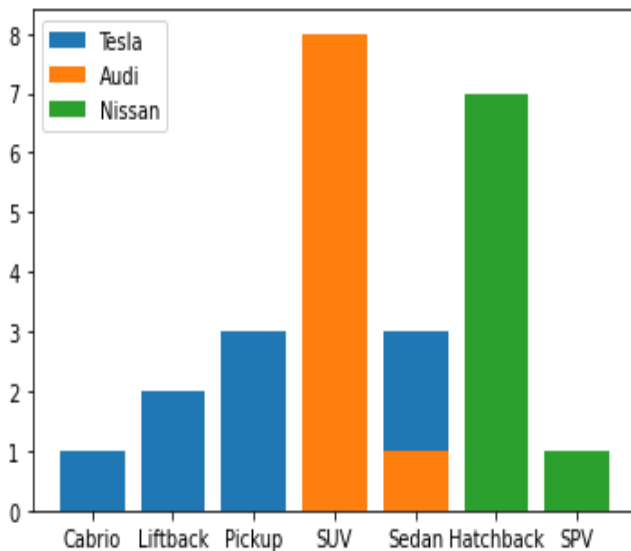
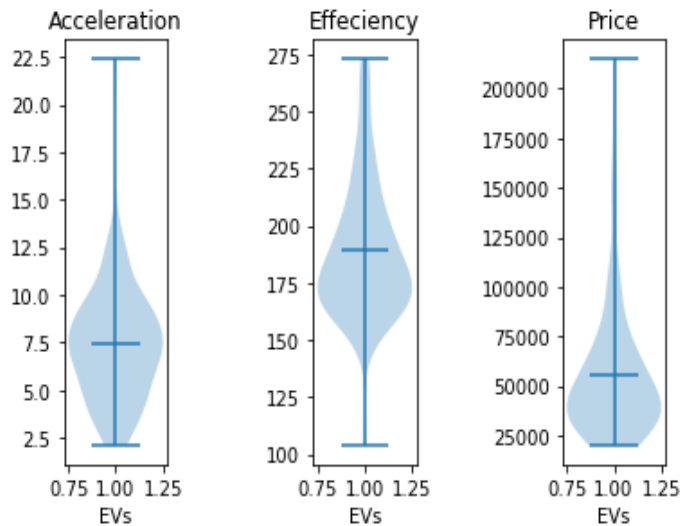
- The various **brands** in the EVs market contain majority of the top automobile companies like Volkswagen, Skoda, Renault, Fiat, Honda to name a few.
- We Also see Luxury automobile manufacturers competing in the EV market. Audi having 2nd largest number of EVs.
- Tesla has the highest number of EVs in the market, which comes as no surprise given that they were the pioneers of the EV concept.

Percentage of Number of Seats



- The analysis of the **number of seats** in an EV shows that the largest percentage of cars have 5 seats, a whopping 68.9% (Which consists majorly of SUVs (41) and Hatchbacks (18))
- The smallest region 1.9% contains only of EVs by the German company Smart, who only have 2-seater EVs.

- ✚ Analysis of **Acceleration** shows that almost all EVs go from 0-100 within 10 seconds. With the average being 7.5 seconds. This shows that EVs are built to be Fast.
- ✚ The **Efficiency** is saturated around the mean of 180Wh/Km. Although there are no EVs with low efficiency we can see that there are very few high-efficiency EVs on the market.
- ✚ The **Prices** of EVs range from €25000 to €250000. With the average price being around €60000



- ✚ Tesla, Audi and Nissan are the top 3 automobile manufacturers.
- ✚ But it is noteworthy that only Tesla has a wide range of types of EVs.
- ✚ Audi only has SUVs and Sedans.
- ✚ Nissan only has Hatchbacks and SPVs.

Inferences and Conclusions:

- ✚ The 1st Bar Graph shows that only a few Automobile Companies have multiple EVs in the market. On the further side of the x-axis we see a whole bunch of companies that have only 1 EV in the market. This shows that the EV industry is just starting out.
- ✚ In the Pie Chart with the percentage of number of seats, 5-seater EVs are majority of the percentage. This shows that small family / group size is still the focus of the manufacturers rather than the luxury 2-seaters which has the smallest percentage on the pie chart.
- ✚ The EVs are doing well with regards to the pricing and acceleration (The cars are fast and affordable!). The efficiency could be better as there is definitely room for improvement.
- ✚ 2 out of the top 3 manufacturers only have 2 types of vehicles, which could change as the demand from the consumers increases.