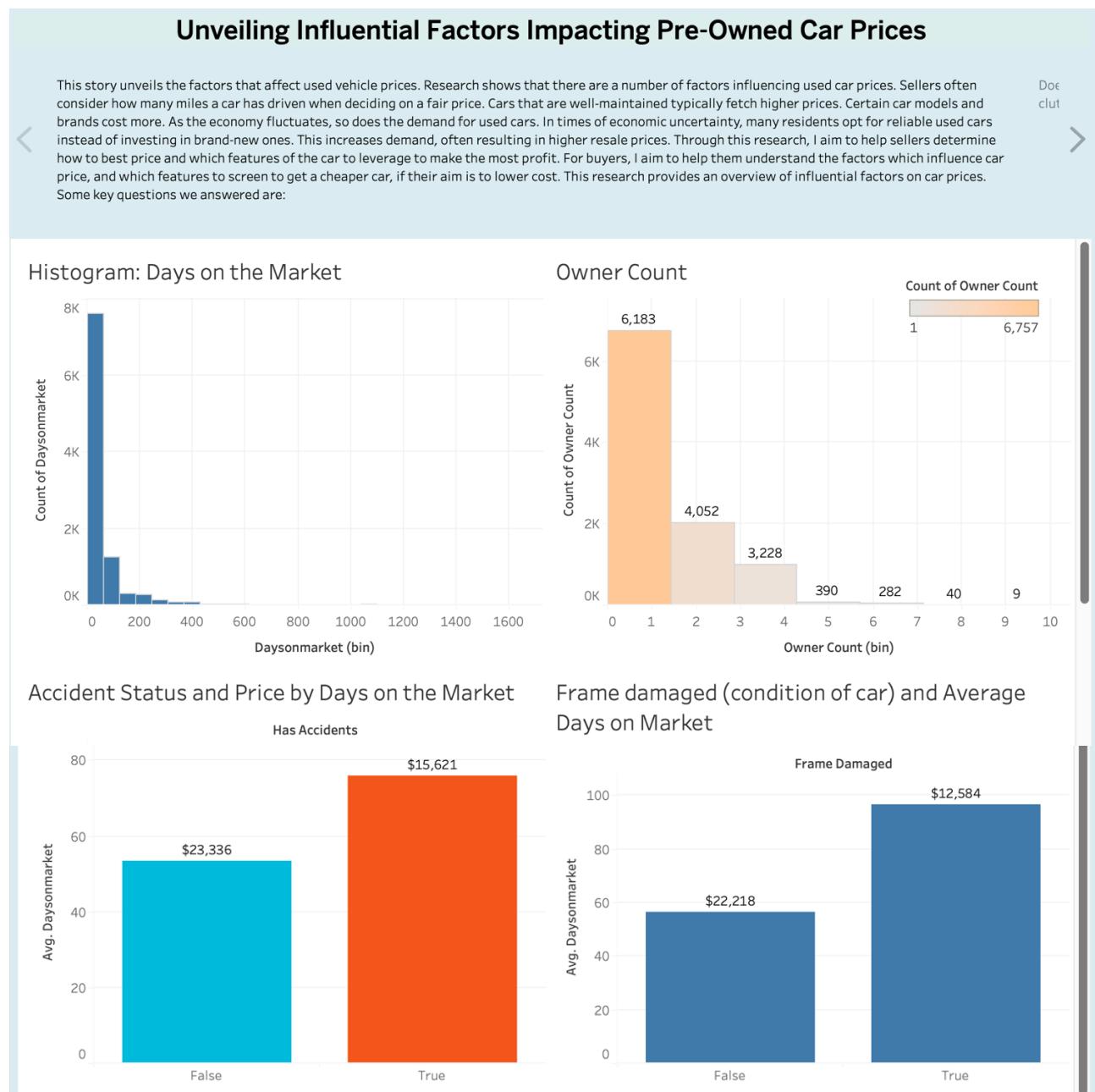


Assignment 9 & 10

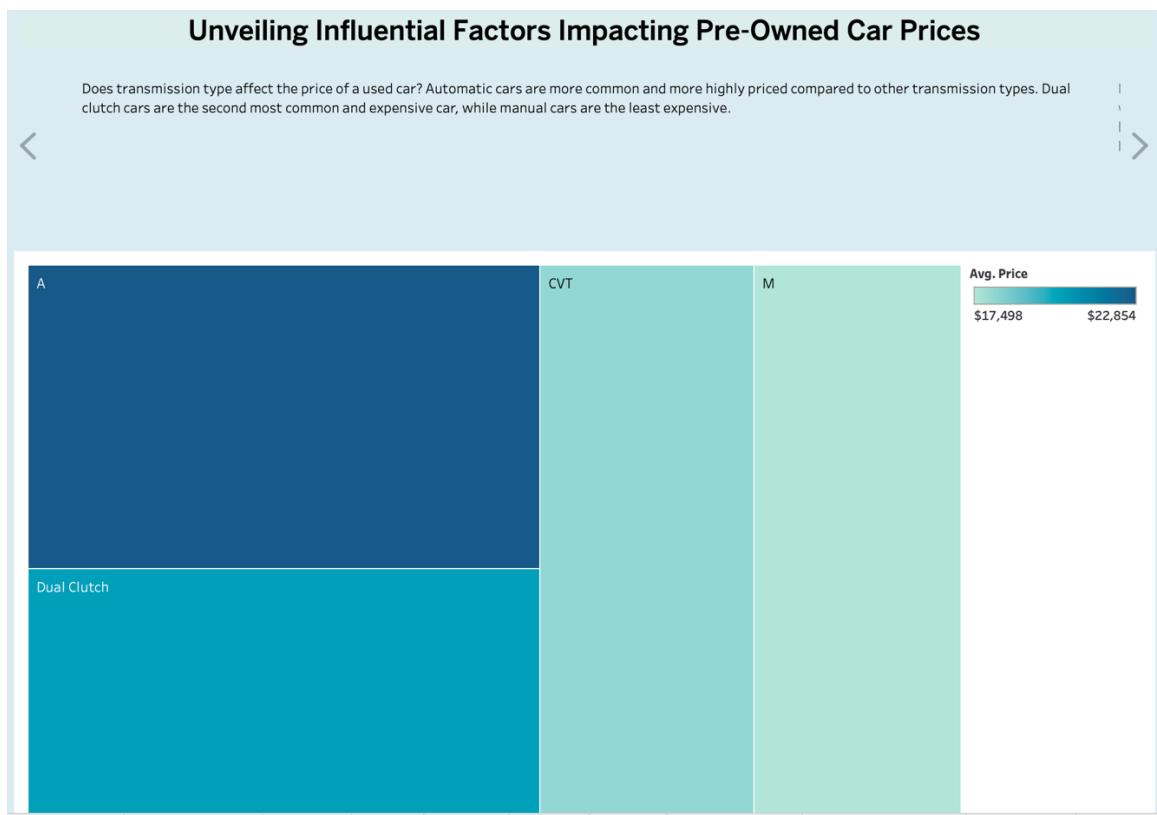
Individual Assignment - Visual Analytics

Anshita Thakkar

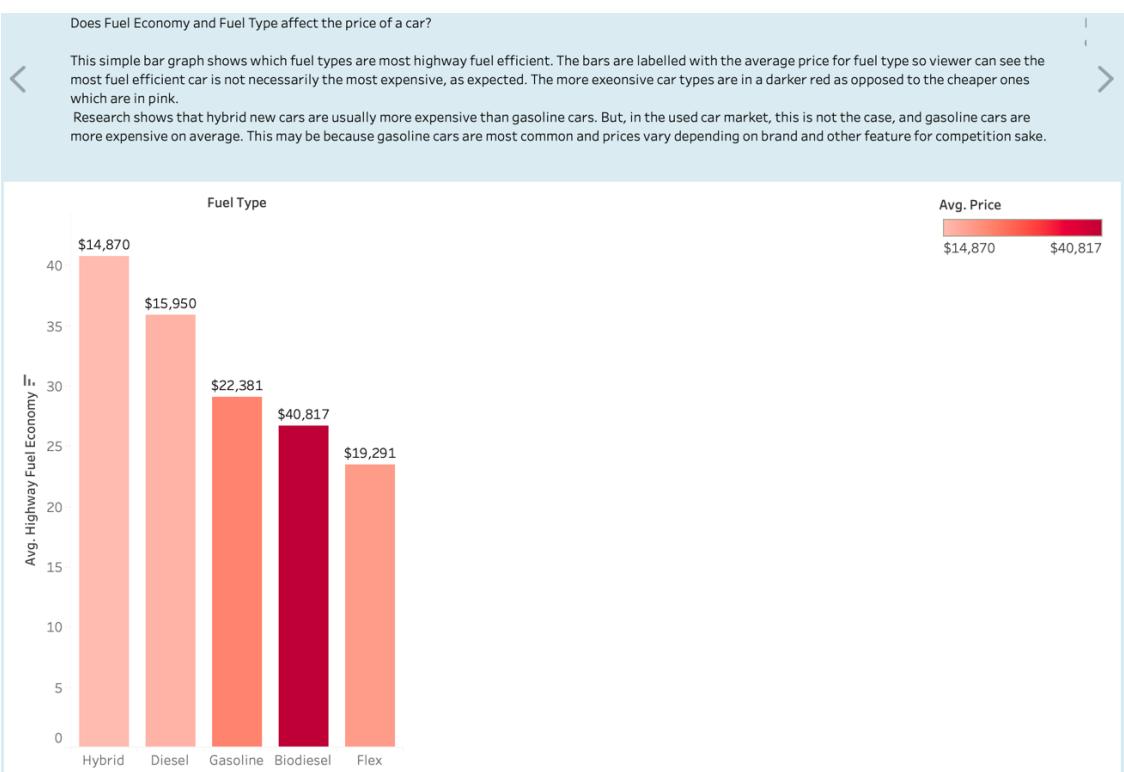
Dashboard #1



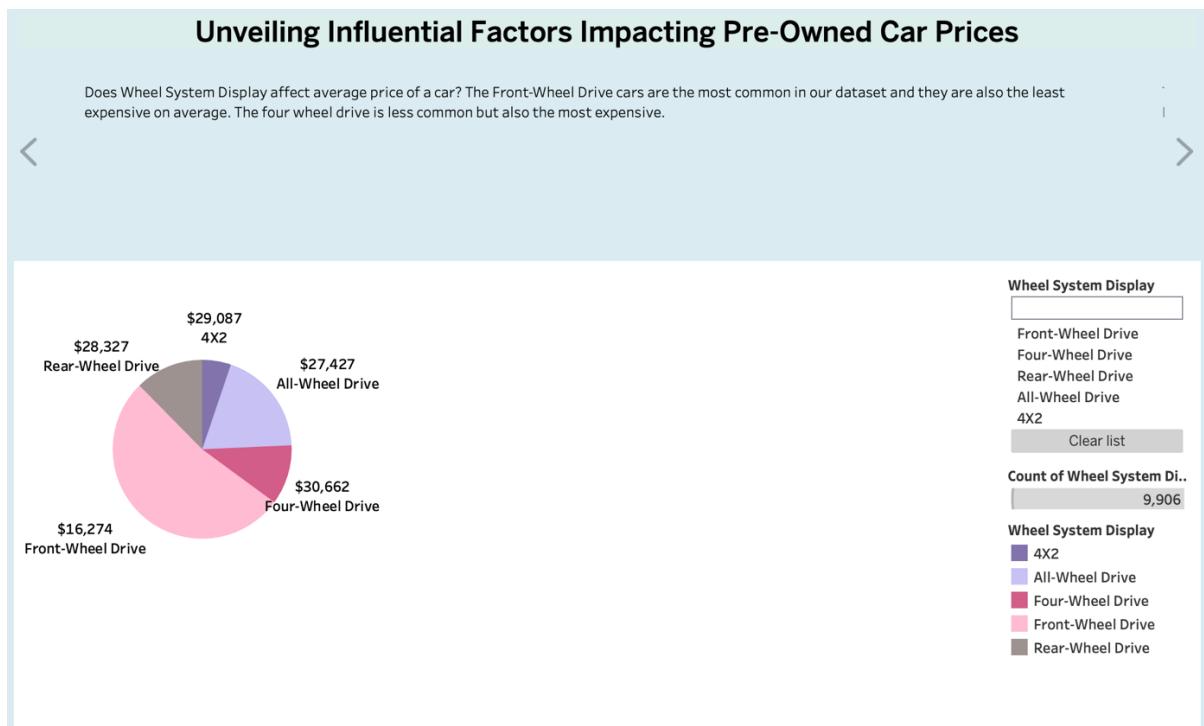
Worksheet #1 – Treemap



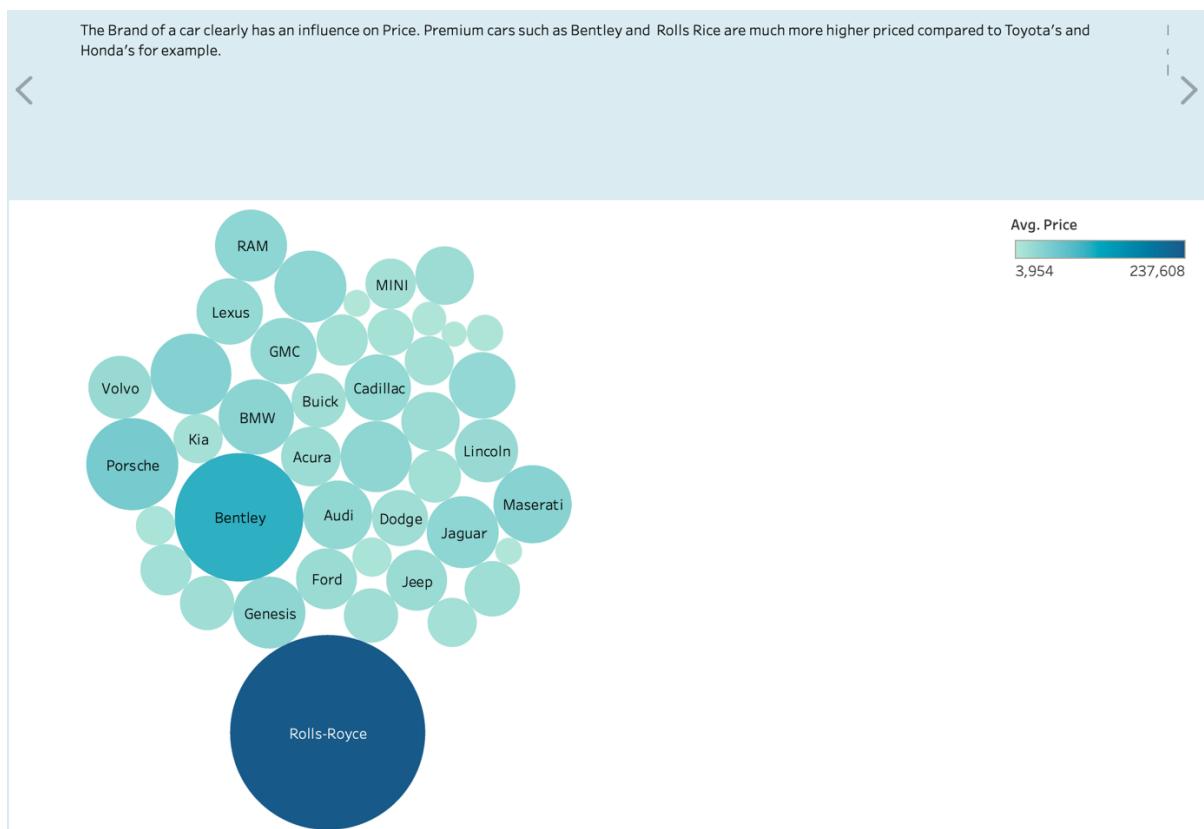
Worksheet #2 – Bar chart



Worksheet #3 – Pie Chart

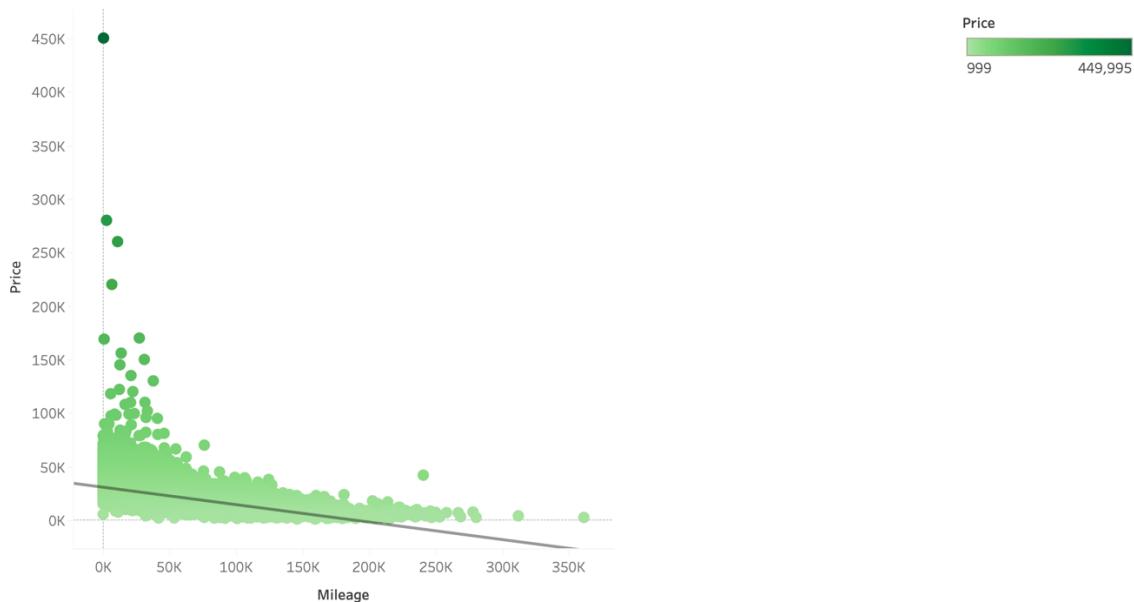


Worksheet #4 - Bubblechart



Worksheet #5 – Scatterplot

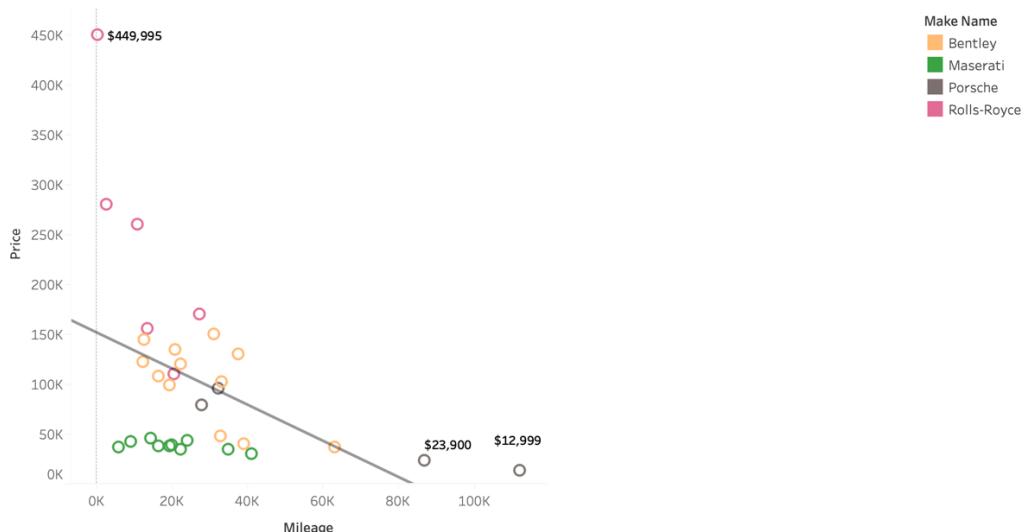
Below is a scatterplot showing the effect of mileage on price of all cars in our dataset. The trend line makes it evident that as price increases mileage decreases and vice versa. There is a negative correlation between both numerical variables indicating that cars that have driven less miles will be priced higher.



Worksheet #6 – Focused scatterplot

Unveiling Influential Factors Impacting Pre-Owned Car Prices

There is evidence that mileage affects car price in general, as shown in the previous slide. We wanted to check that this is also the case among premium cars. The graph revealed that there is in fact a negative correlation between price and mileage, that being that if a car has driven more miles, it is priced lower even among premium brands, and vice versa. An exception is the Maserati brand. It would be interesting to do an in-depth analysis of each car model to check the impact of individual factors on price.



Worksheet #8 - Boxplot

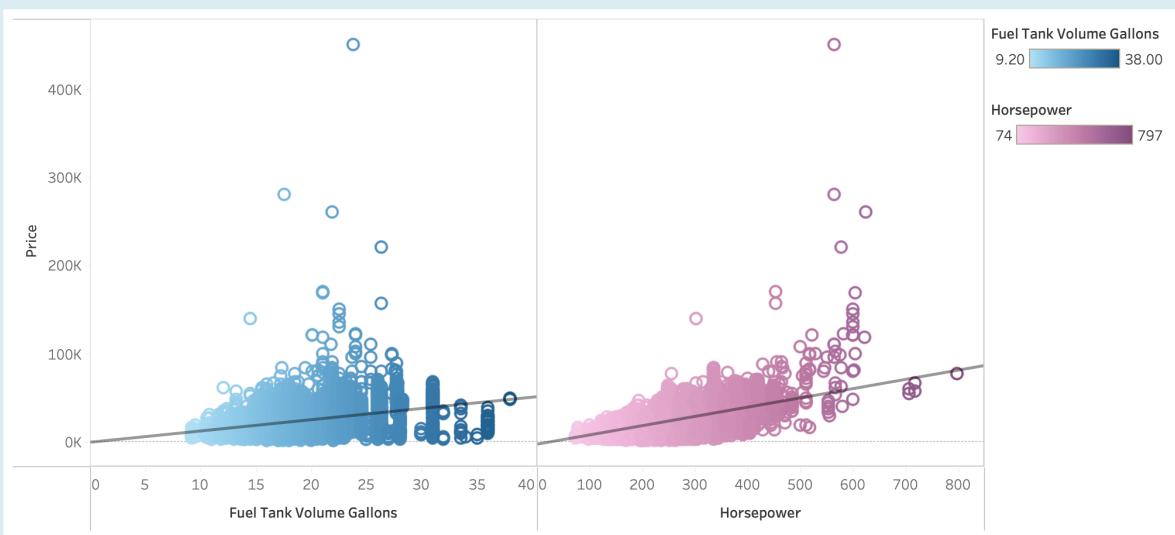
Among normal branded cars, the color and make certainly affects the price. We chose the Top 3 Car Makes in the dataset. Ford cars of all colors on average are more expensive than colored Toyotas, and Nissan cars of all colors are on average lower priced than the other makes. This strengthens the finding that brand has an impact on car price. Gray Ford Nissan's have the highest average price compared to other colored prices. Gray cars also have the most variability in price compared to the other colors for these brands. Red Nissans on average are priced lower than other colored cars of the other brands. This information is particularly useful for buyers looking to find a cheaper car, as they can narrow their search based on these findings.



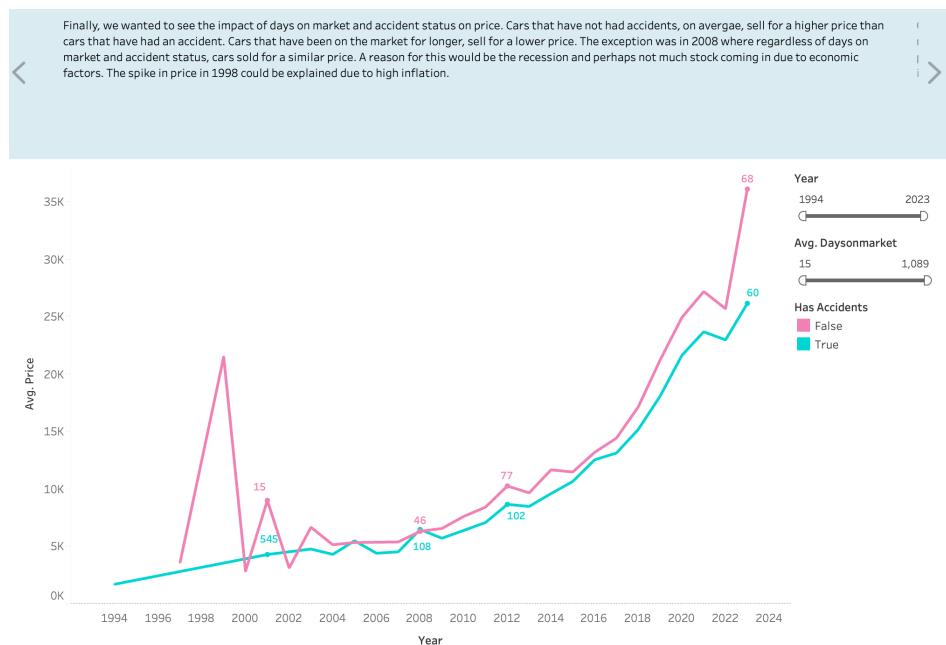
Worksheet #9 – Side by side scatterplot

Unveiling Influential Factors Impacting Pre-Owned Car Prices

This story point highlights the internal features of car and its impact on price such as the fuel tank volume (in gallons) and horsepower. Both factors are positively correlated with price. As a car's fuel tank volume and horsepower increases, it sells for a higher price in the used car market. This is effective information for sellers looking to leverage certain factors for a higher price.



Worksheet #10 – Line chart



Dashboard #2

