



TASK 7

IMPACT OF CAR FEATURES

By Yash Rajput
9175034021 yashrajput.social@gmail.com

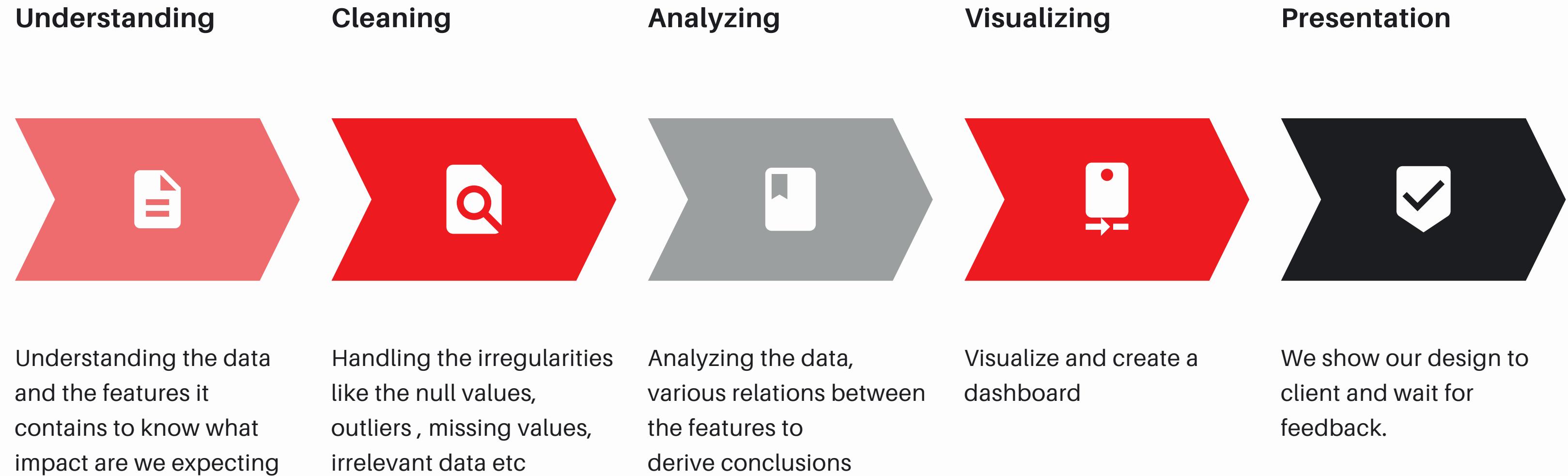


PROJECT DESCRIPTION

MAXIMIZE PROFITABILITY FOR A CAR MANUFACTURER BY ANALYZING FEATURE-MARKET-PRICING CORRELATIONS USING REGRESSION AND SEGMENTATION. DEVELOP A CONSUMER-DRIVEN PRICING STRATEGY FOR COMPETITIVENESS AND LONG-TERM PROFITABILITY.

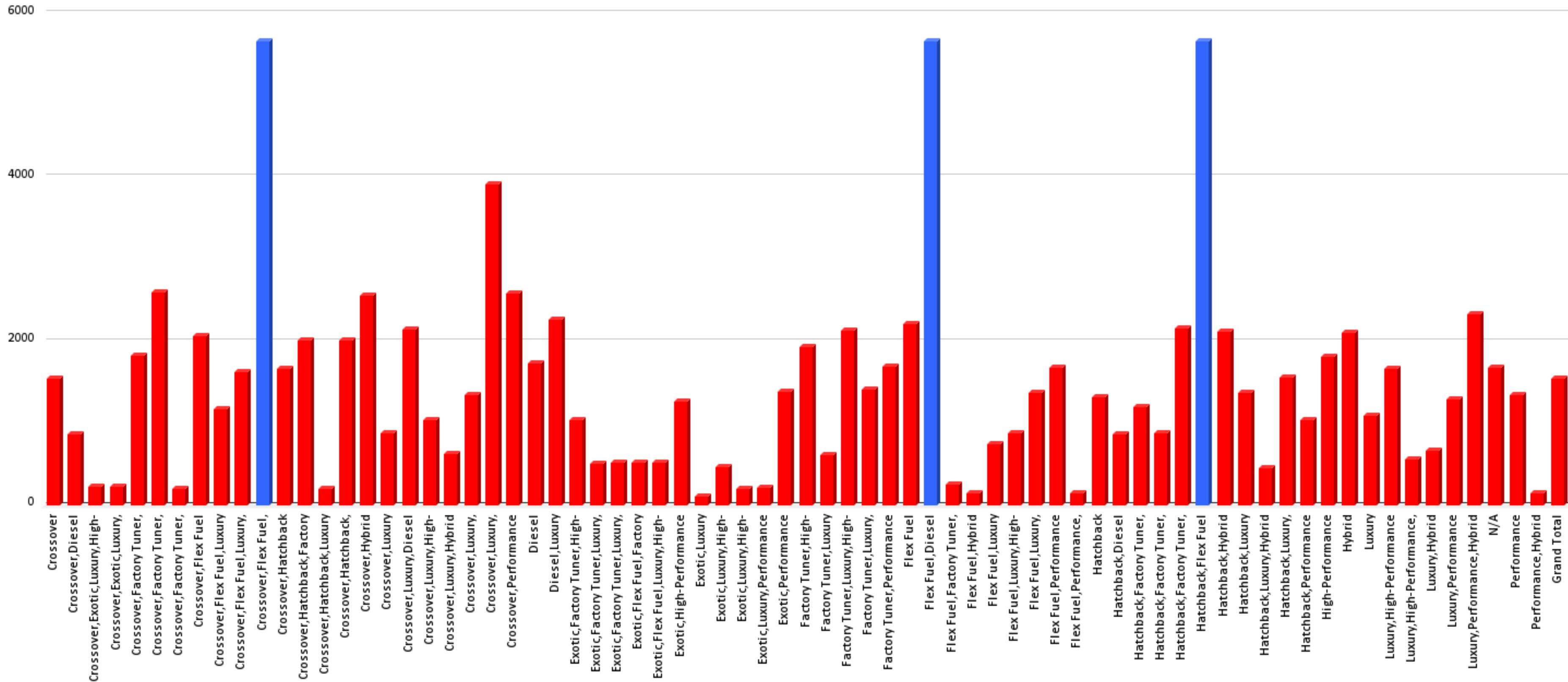


APPROACH

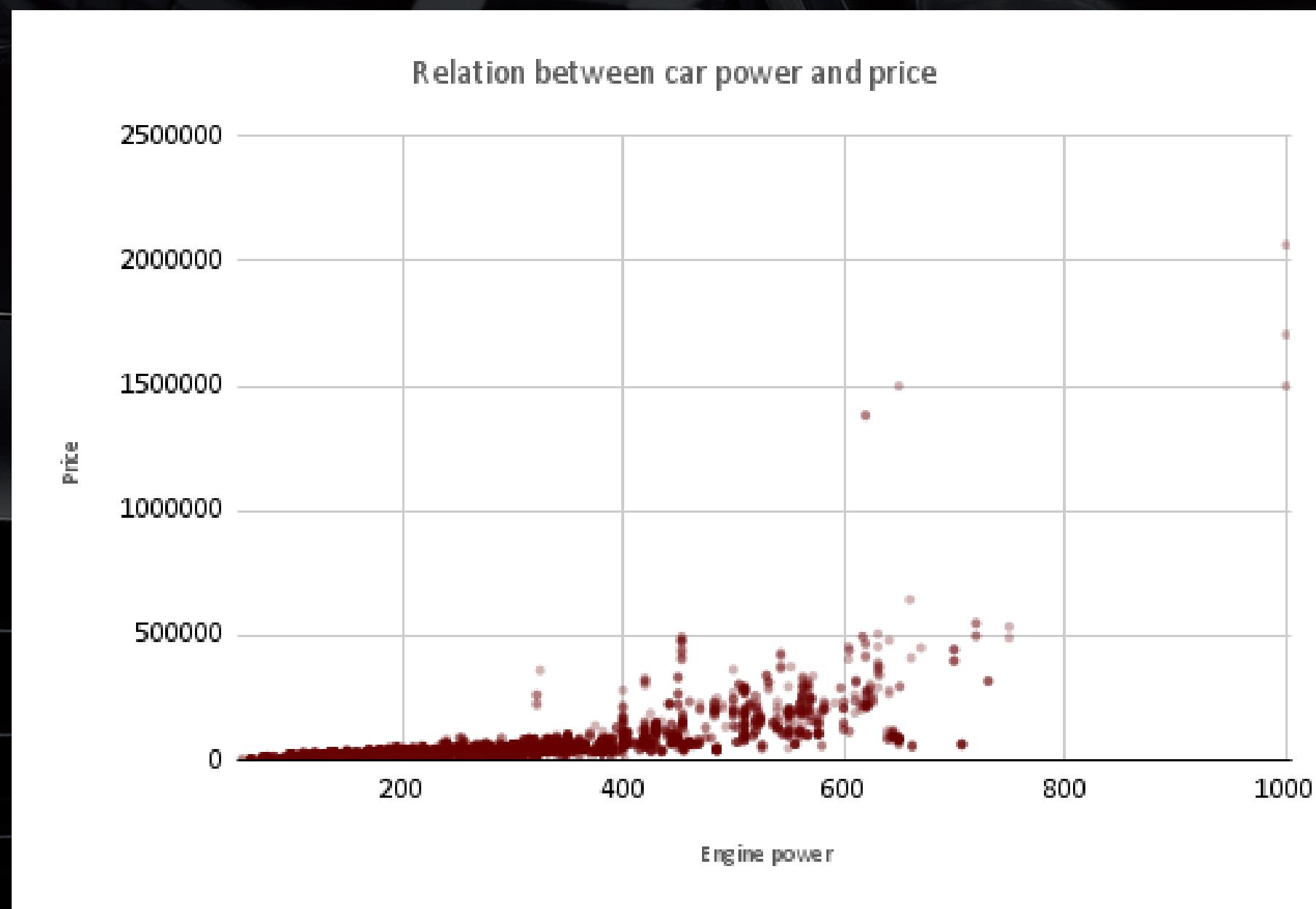


POPULAR MARKET CATEGORY

5657 is the highest popularity score with 3 categories being the most popular

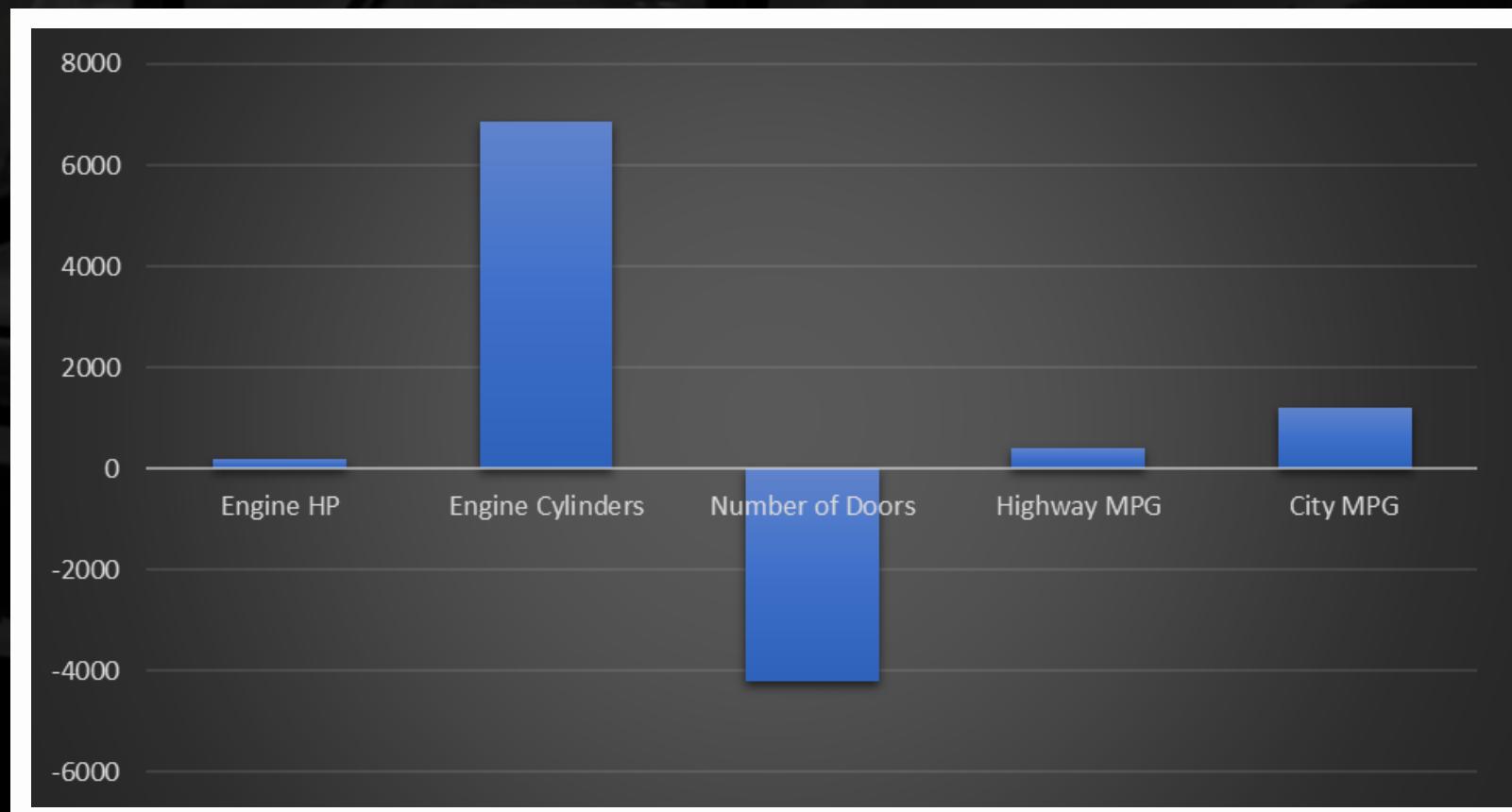


RELATION BETWEEN CAR POWER AND PRICES



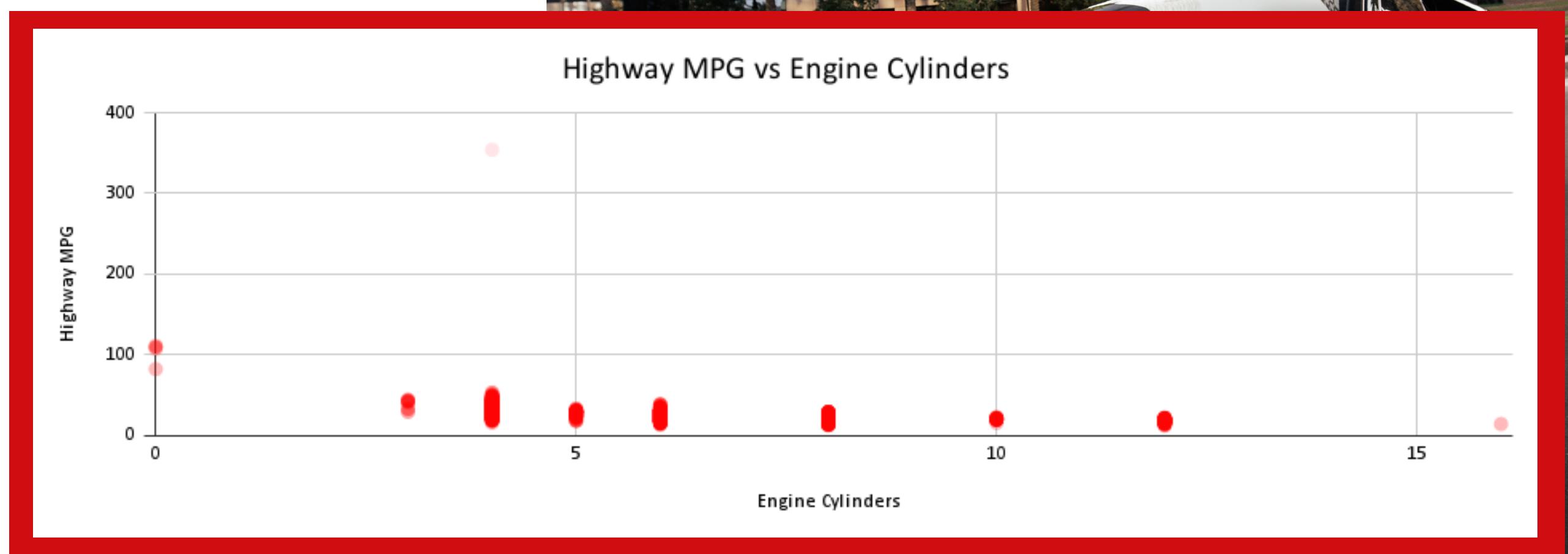
DEPENDENCY OF VARIABLE

regression analysis to identify the variables that have the strongest relationship with a car's price. Then create a bar chart that shows the coefficient values for each variable to visualize their relative importance.

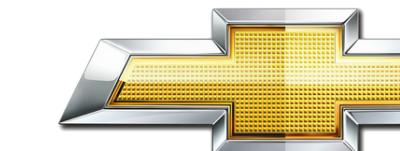


COEFFICIENT OF VARIABLES

RELATIONSHIP BETWEEN FUEL EFFICIENCY AND THE NUMBER OF CYLINDERS IN A CAR'S ENGINE



AS WE CAN SEE HERE IF THE NO OF CYLINDER INCREASES HIGHWAY MPG WILL DECREASES SO WE CAN SAY THAT BOTH HAVE NEGATIVE RELATION BETWEEN THEM.

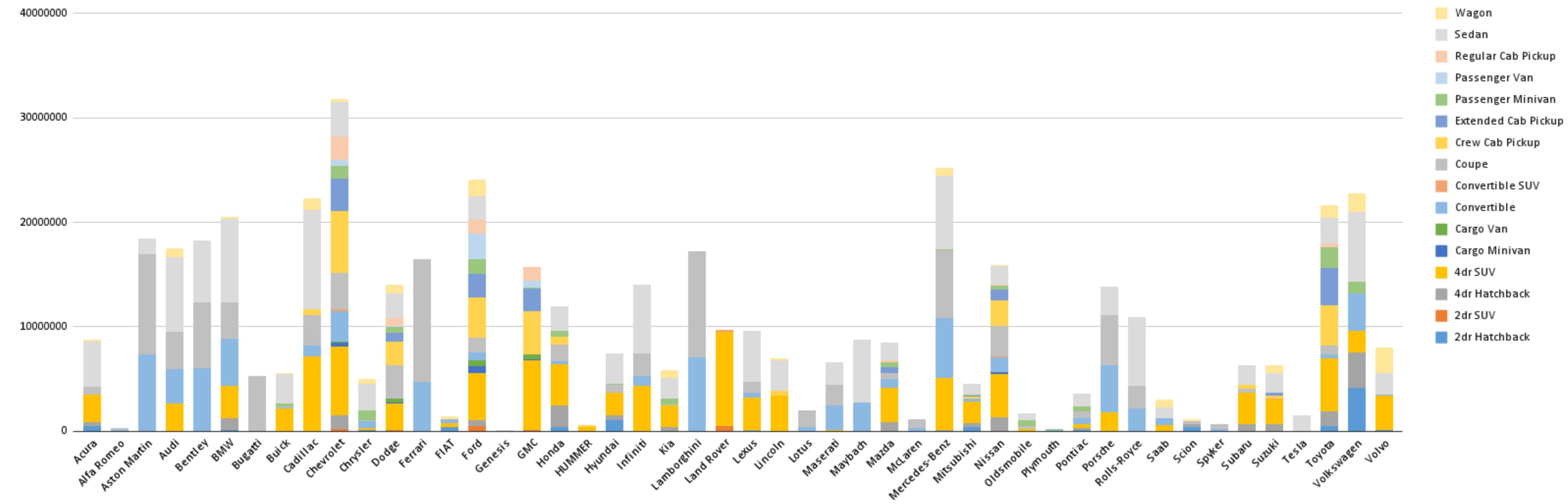


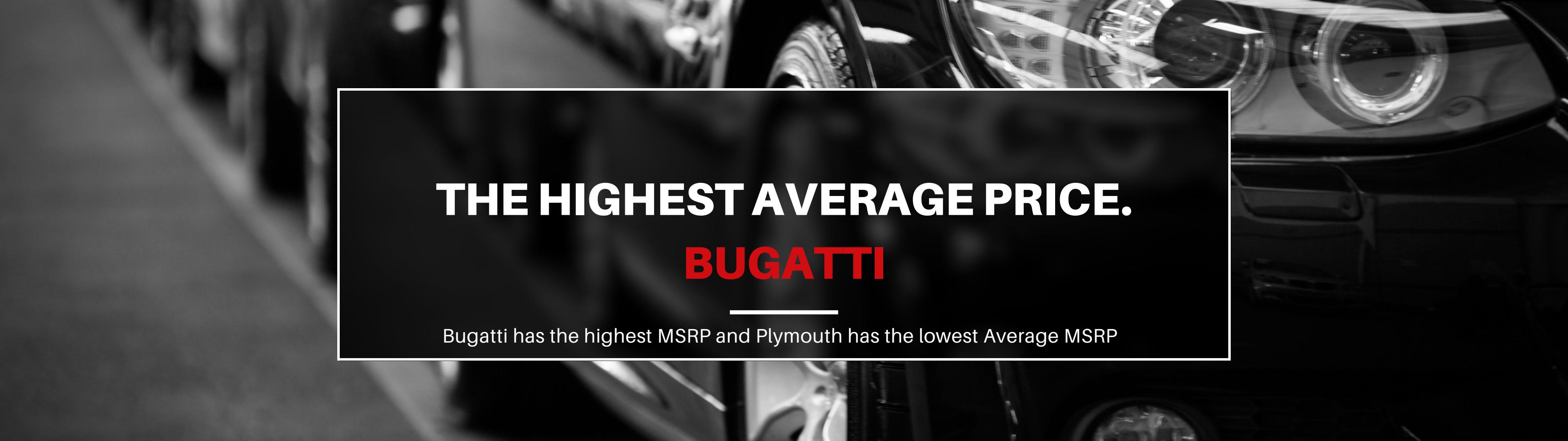
CHEVRO

Highest price distri



GENESIS



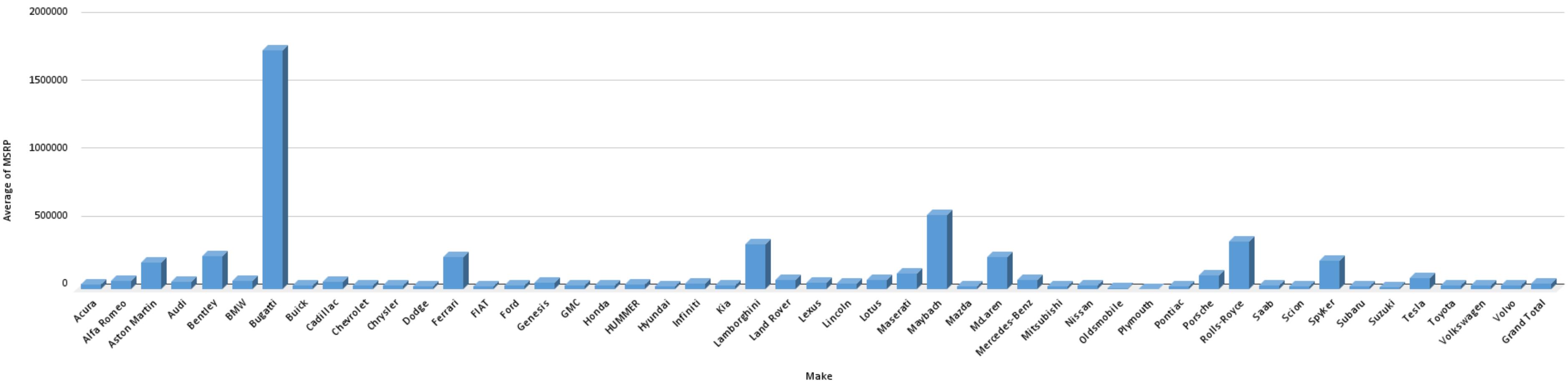


THE HIGHEST AVERAGE PRICE.

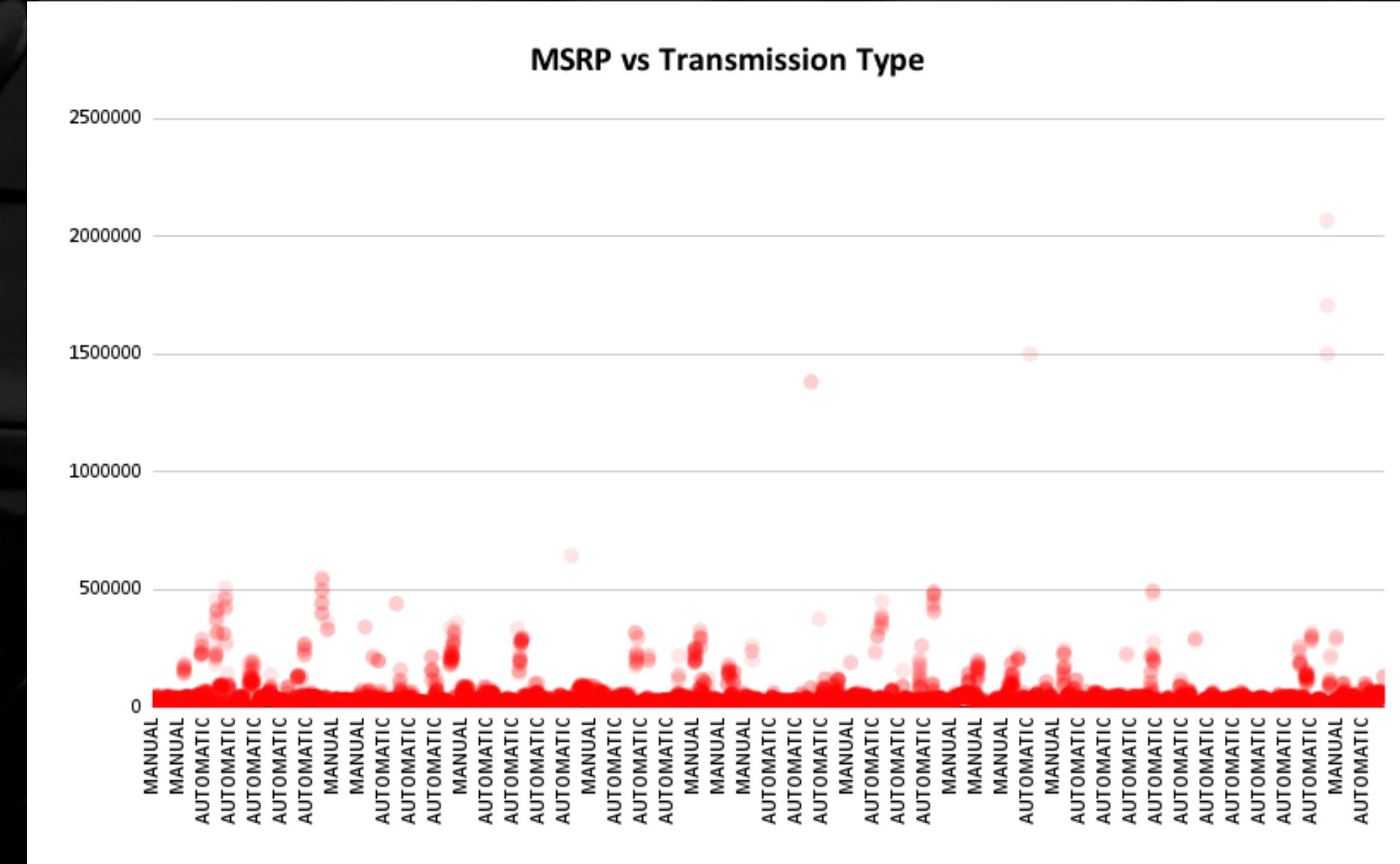
BUGATTI

Bugatti has the highest MSRP and Plymouth has the lowest Average MSRP

Average of MSRP vs Brand Model

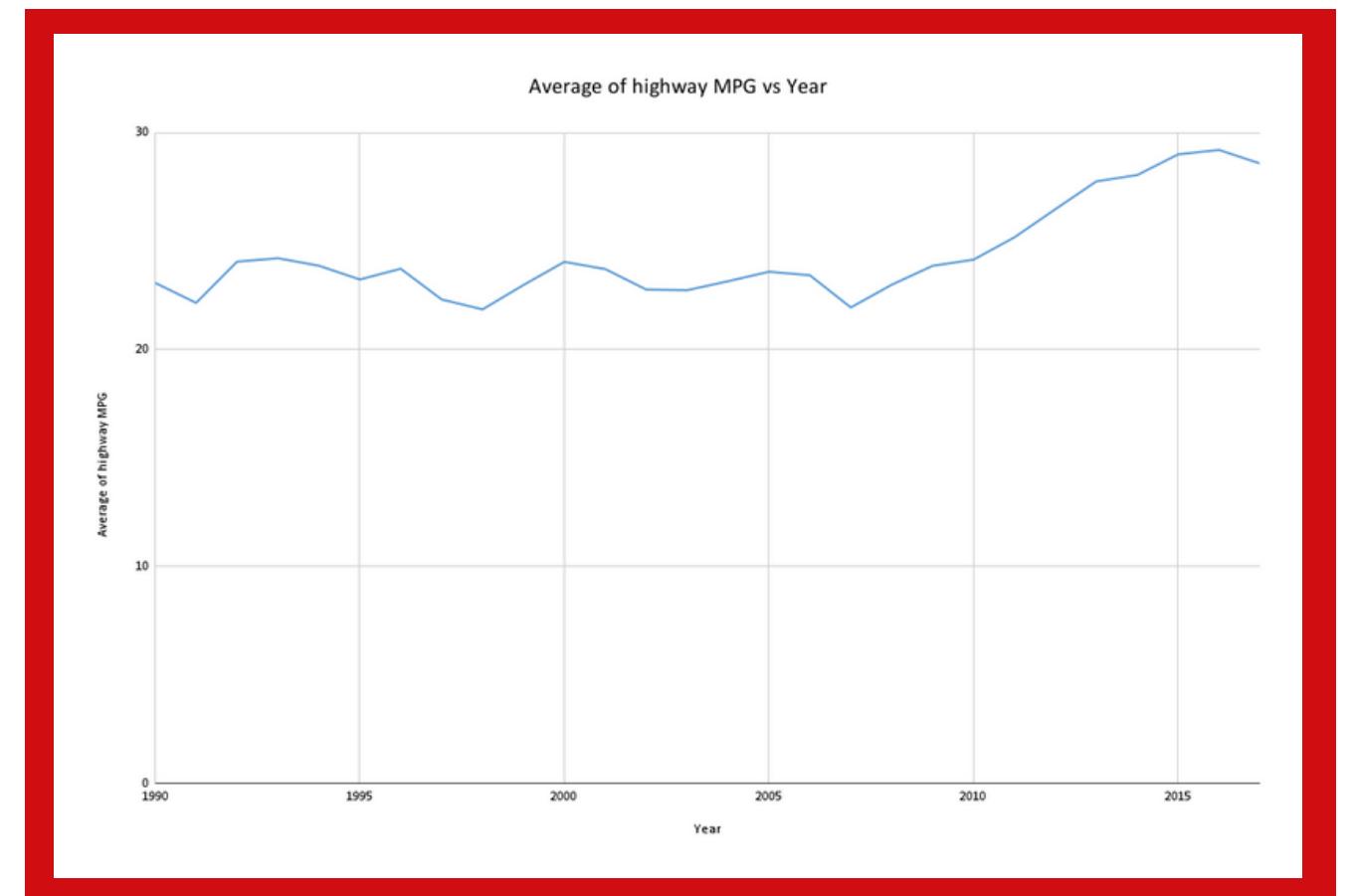


AUTOMATIC_MANUAL IS MOST EXPENSIVE CATEGORY AND MOST POPULAR ALSO



LINE CHART TO SHOW THE TREND OF FUEL EFFICIENCY

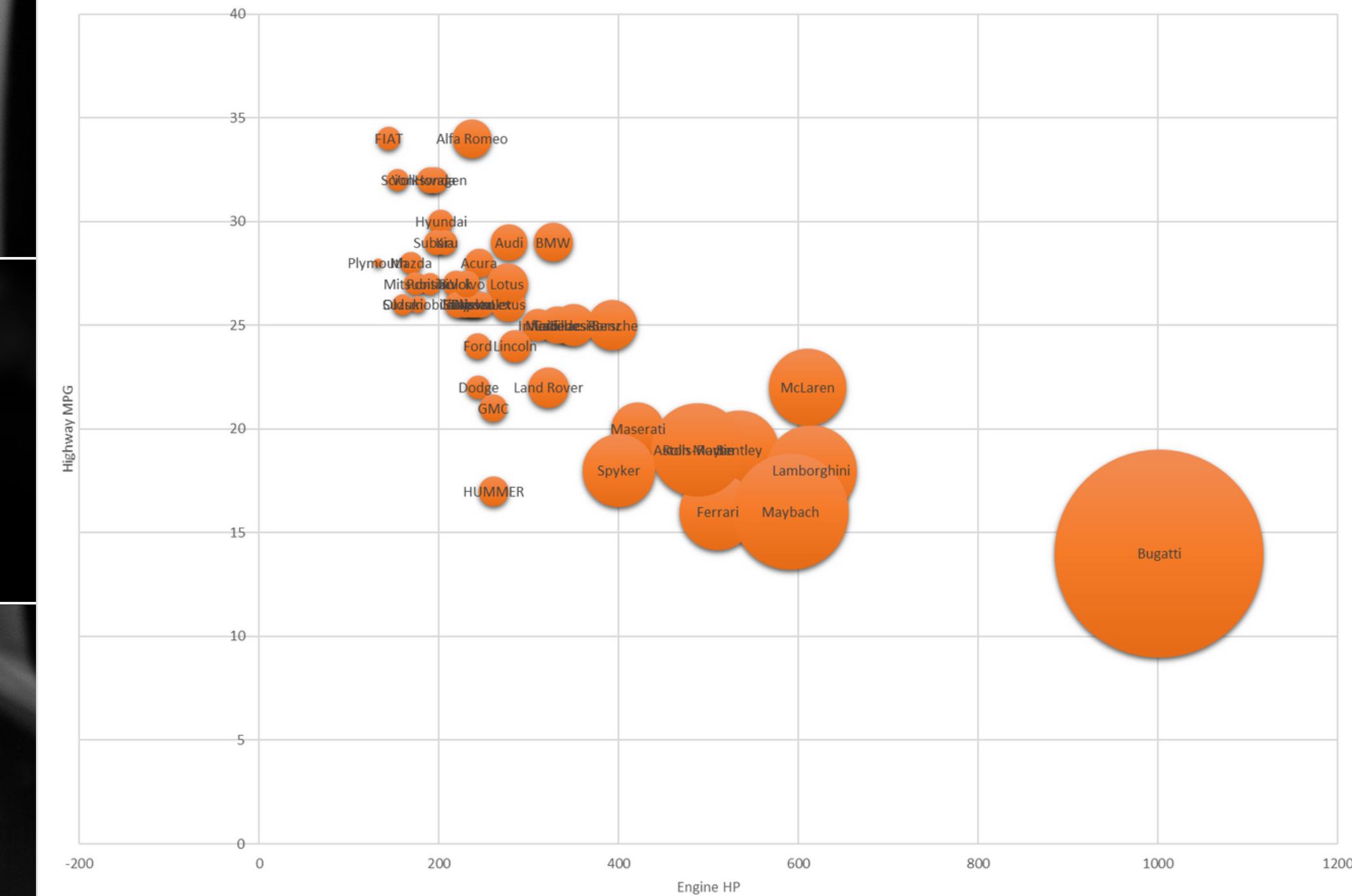
OVER THE YEAR FUEL EFFICIENCY IS INCREASING AT A SLOW SPEED.

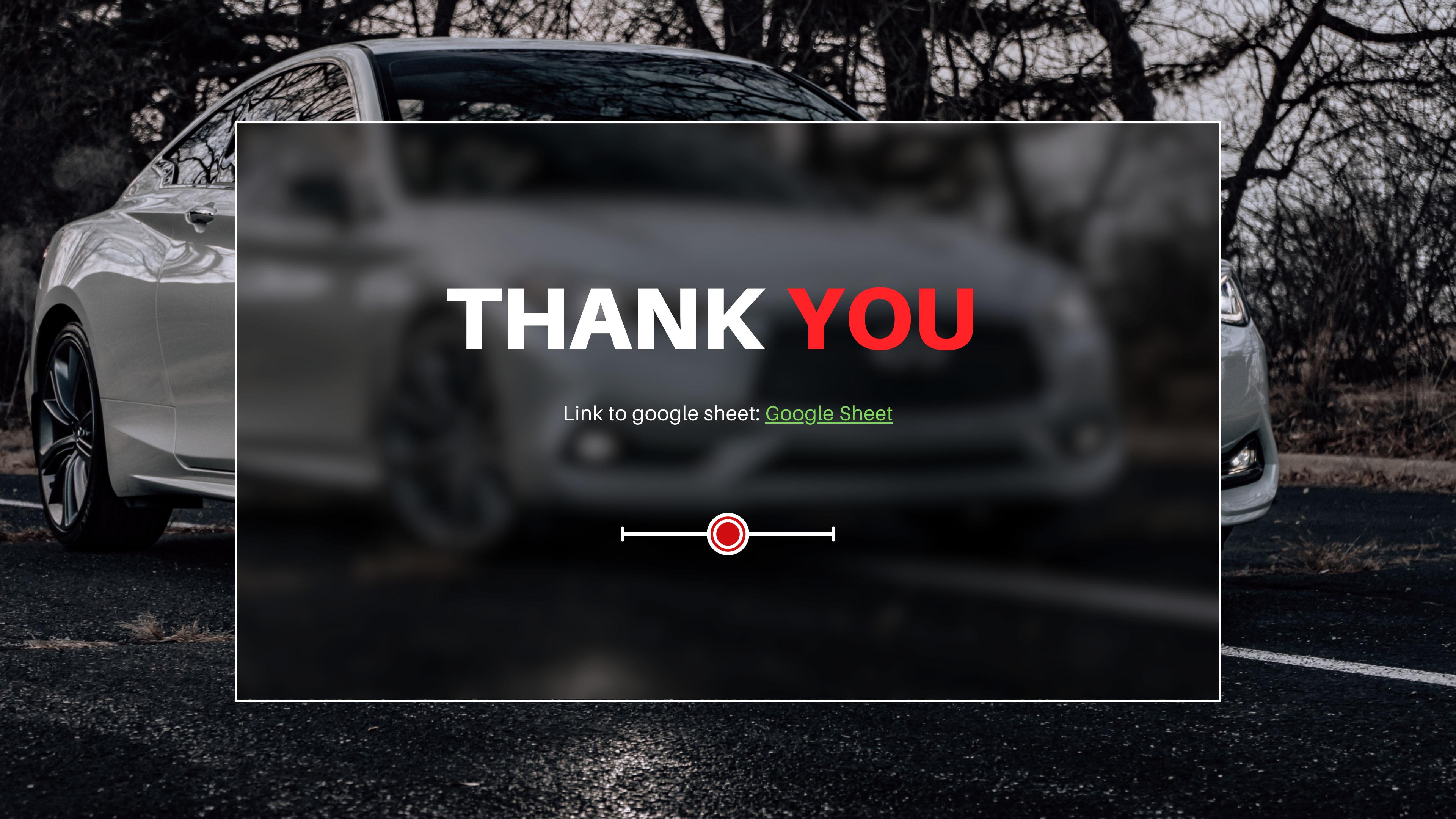


ENGINE HP VS MPG VS PRICE

If engine hp increase highway mpg will decrease and price will also increase.

Engine HP vs MPG vs Price





THANK YOU

Link to google sheet: [Google Sheet](#)

