



# USED CAR PRICE PREDICTION

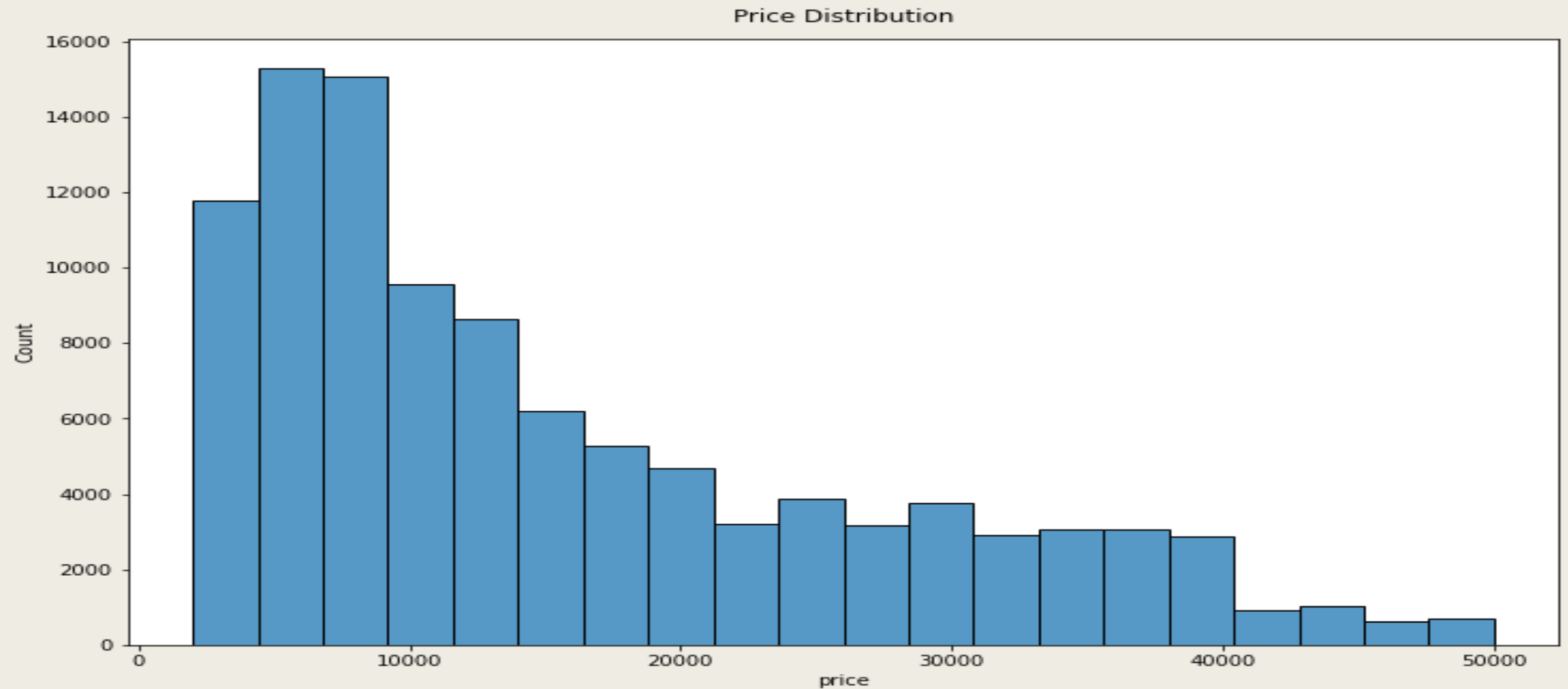
Fai Alomair & Nadia Alhjrsi

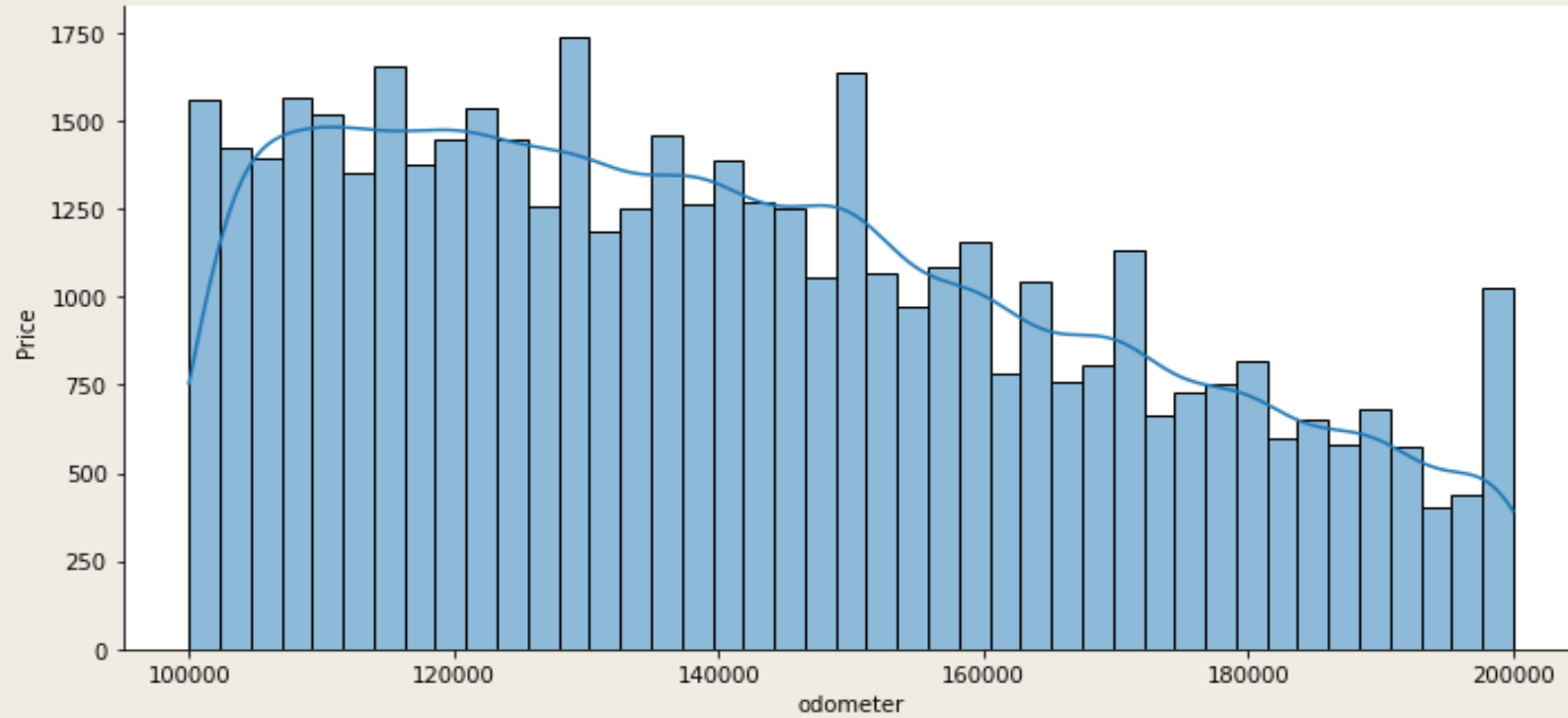


# Data

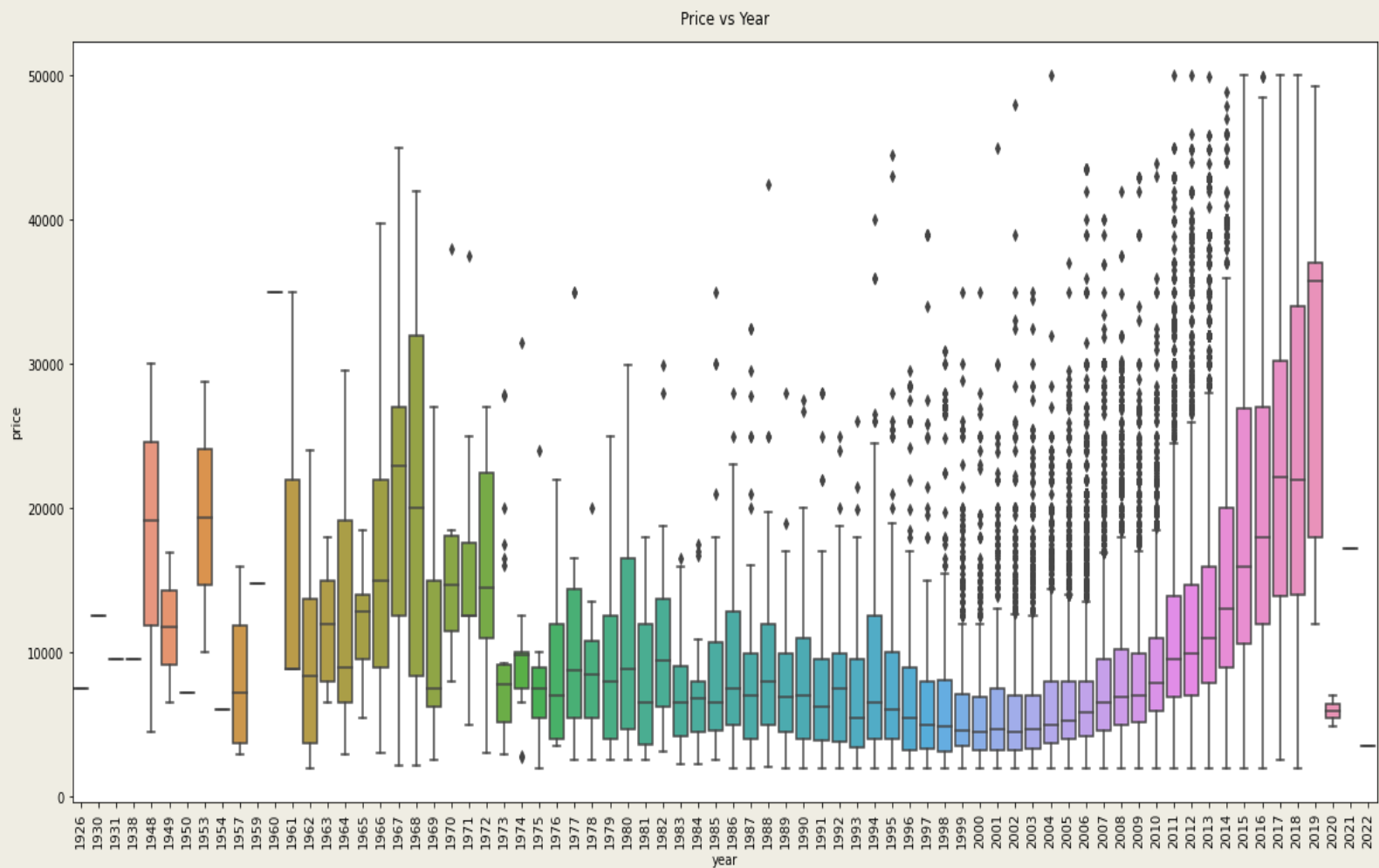
- Used Cars Dataset. It is obtained from Kaggle
- The data is scraped every few months, it contains most all relevant information that Craigslist provides on car sales including columns like price, size ,Color , manufacturer, year, and other categories.

# Price Distribution

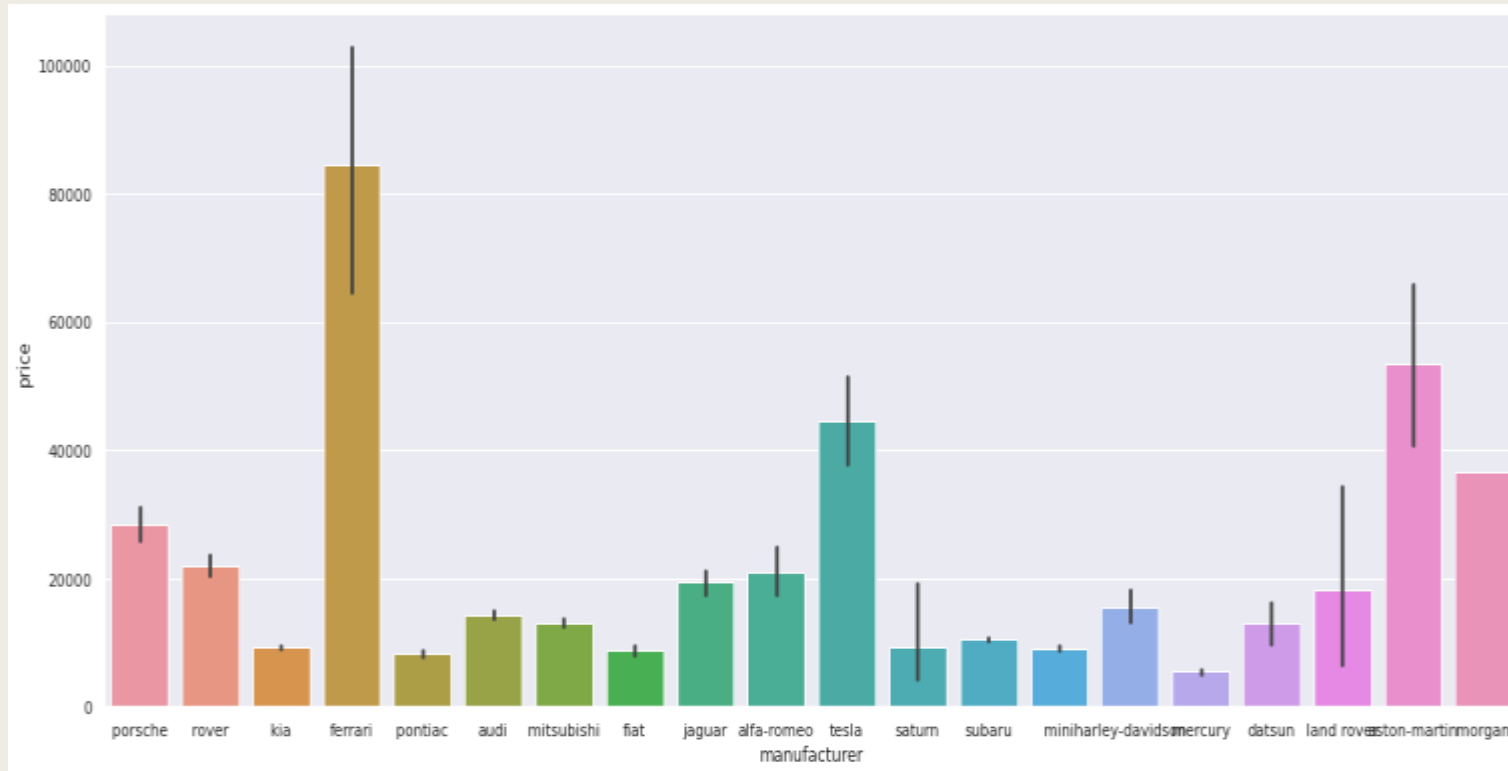




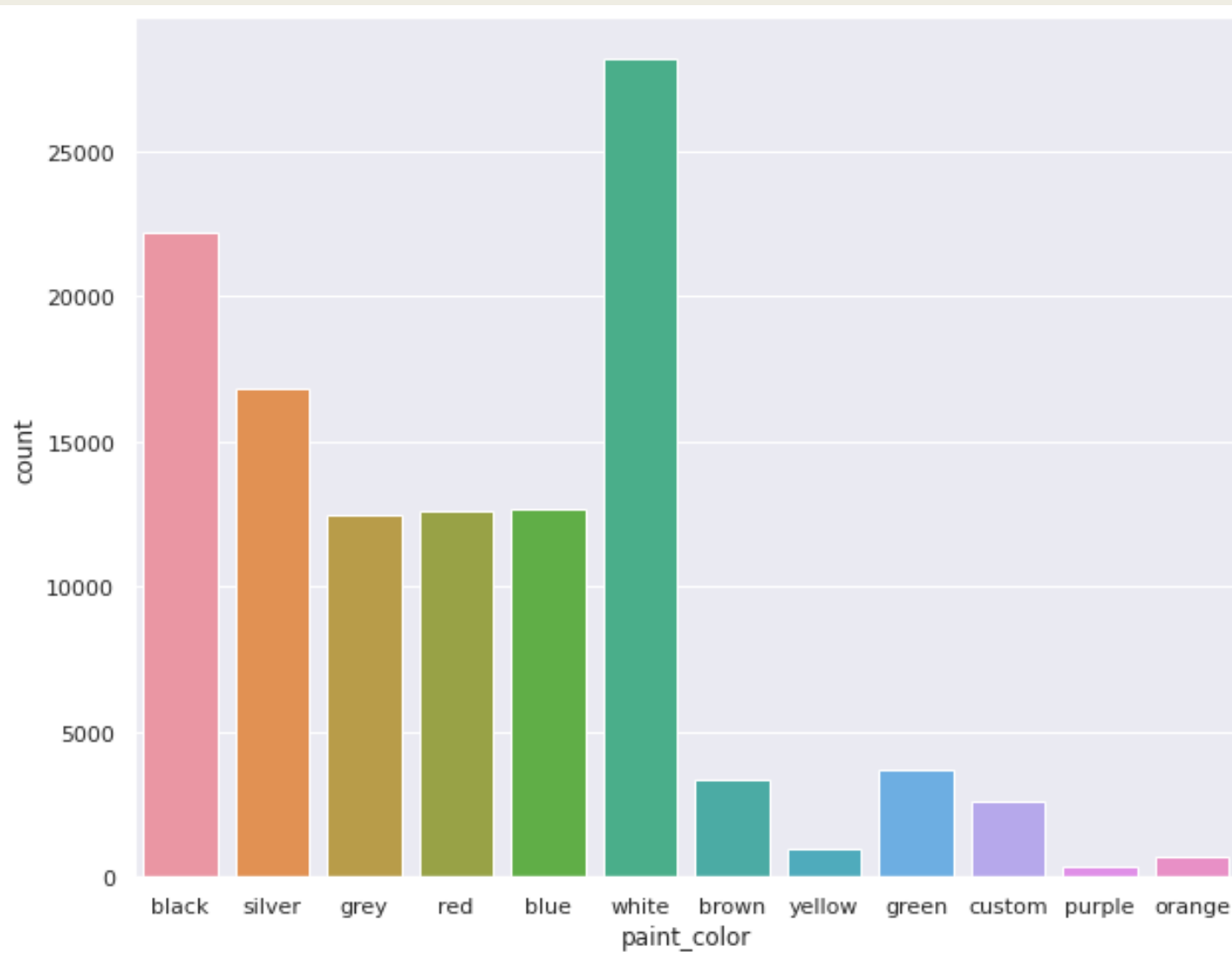
Price vs Odometer



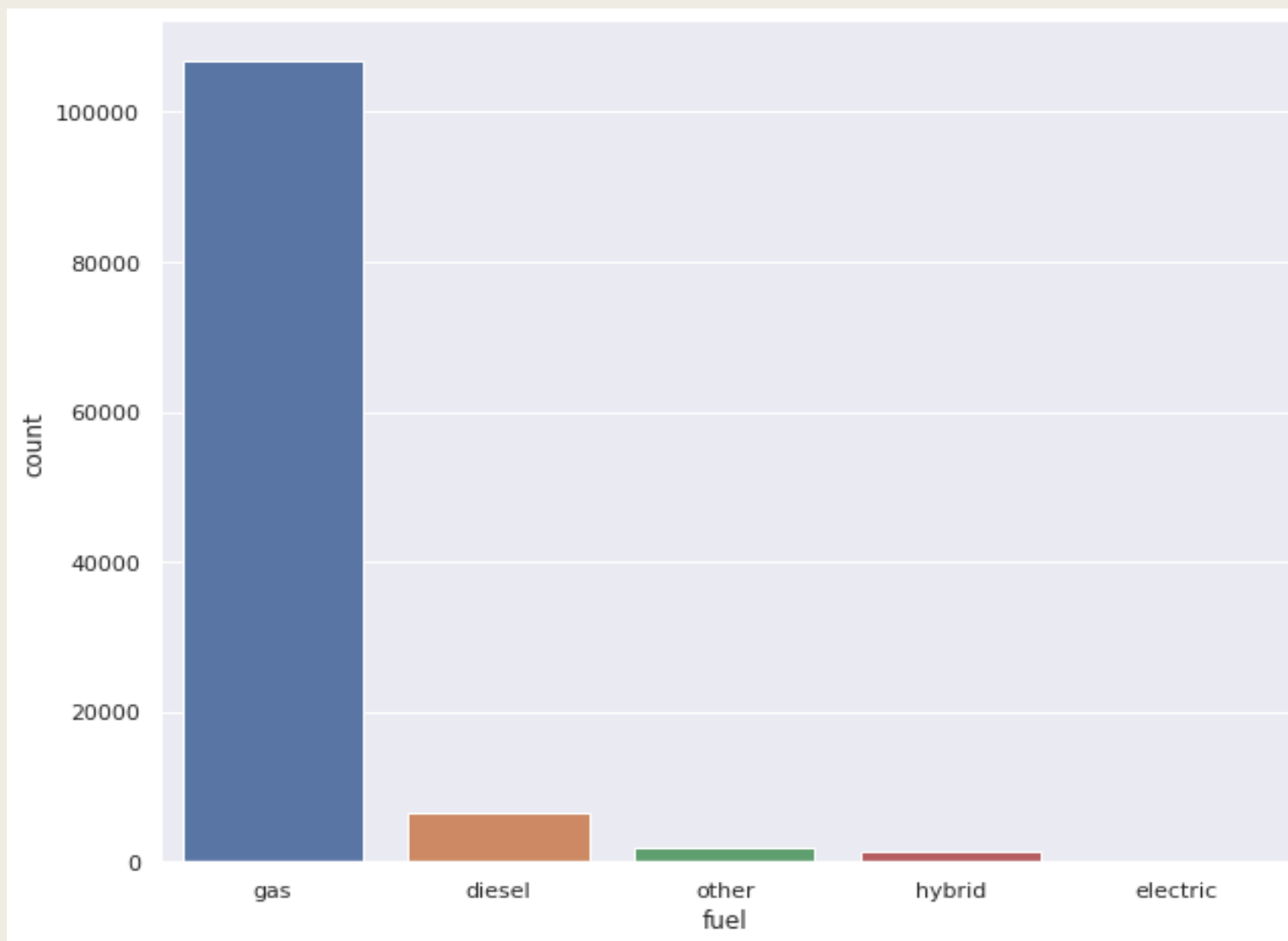
Price vs Year



HOW PRICE IS RELATED  
TO DIFFERENT KINDS  
OF MANUFACTURING



What is the common color for used car



What is the common  
Fuel type for used car



# Algorithm's

- EDA
- Split Data
- Visualization Data
- Build models
- Validate and Test models

# MODELS

|   | Model             | R <sup>2</sup> | RMSE         |
|---|-------------------|----------------|--------------|
| 0 | Linear Regression | 0.000484       | 2.805000e+10 |
| 1 | Lasso             | 0.000485       | 2.629000e+10 |
| 2 | LightGBM          | 0.807000       | 2.449000e+10 |
| 3 | Random Forest     | 0.784000       | 1.247830e+01 |