# Predicting Price of Cars

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# Overview

- Dataset of cars (presumably India) and their features
- Stakeholders: Automotive companies and dealerships
- Kaggle link for dataset

# Data Dictionary

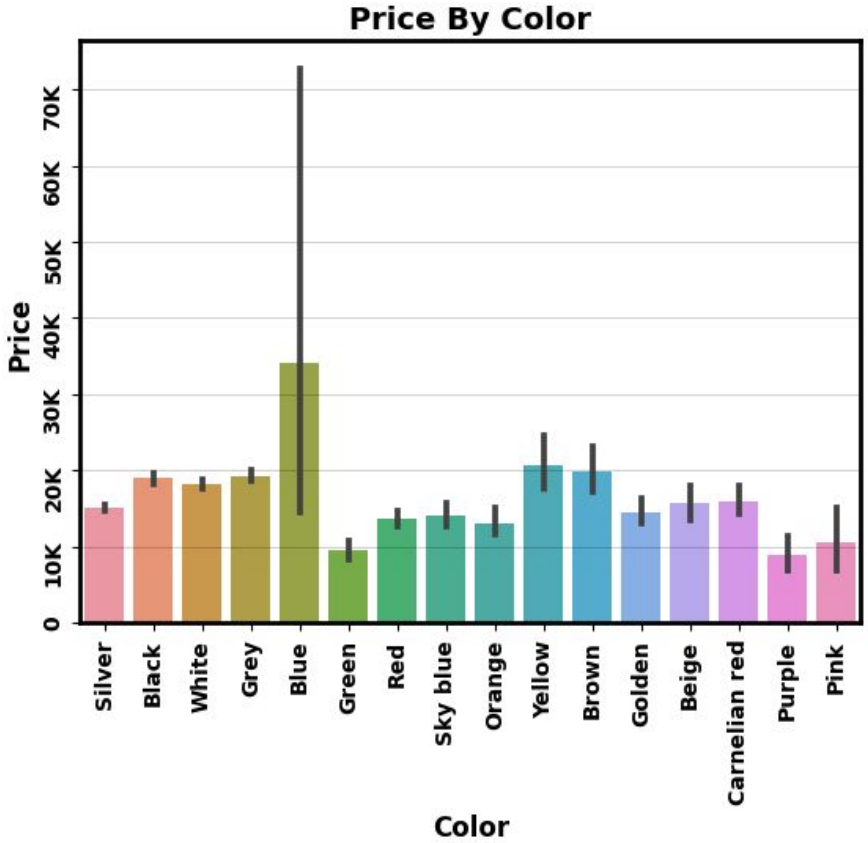
- Attributes
- ID
- Price
- Levy (Tax)
- Manufacturer
- Model
- Production Year
- Category (Type of car)
- Leather interior
- Fuel Type
- Engine Volume
- Mileage
- Cylinders
- Gear Box type (manual, automatic, etc.)
- Drive Wheels
- Doors
- Wheel
- Color
- Airbags

# Problems to solve

- Creating a learning model where it gathers the car features to predict the price of the vehicles

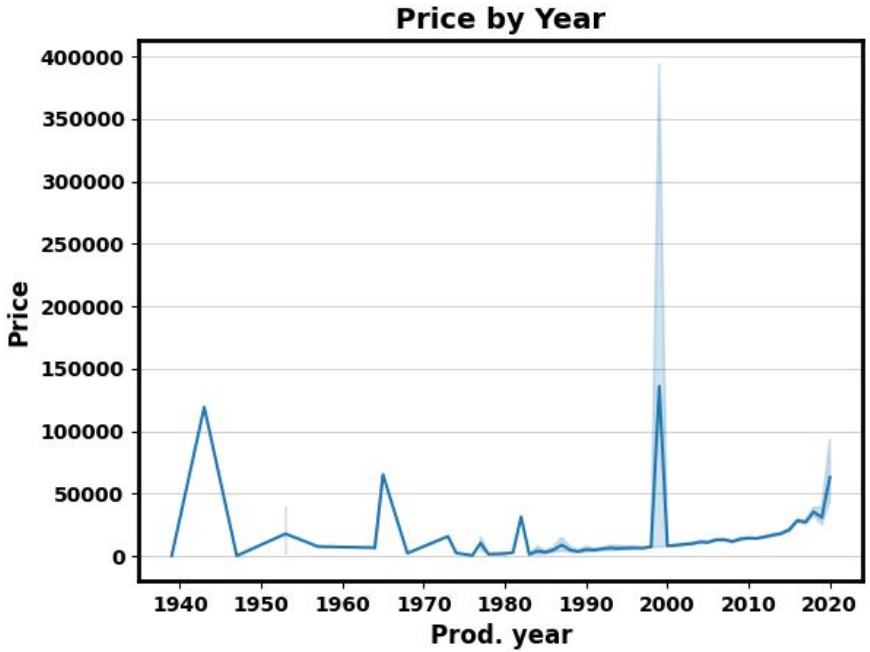
# Price for color

- Color has implications on the price of the car
- Blue cars have the highest average price with a lot of variance within



# Price throughout the years

- Here we see that there are spikes in car sales depending on the year it was made
- Overall price increase as the year increases



# Model Evaluation

- Pros
  - Able to utilize data in order to predict price for cars
- Cons
  - Takes a long time to run
  - Further tuning to be made to better optimize the model.

# Recommendations

- Would not recommend for deployment as of yet.
- More data will allow for a better predictor for car price
    - However, more data might slow down the rate in which it can predict the price.

# Thank you.