Used Car Price Prediction Web App

URL: http://ec2-54-202-199-70.us-west-2.compute.amazonaws.com:5000/

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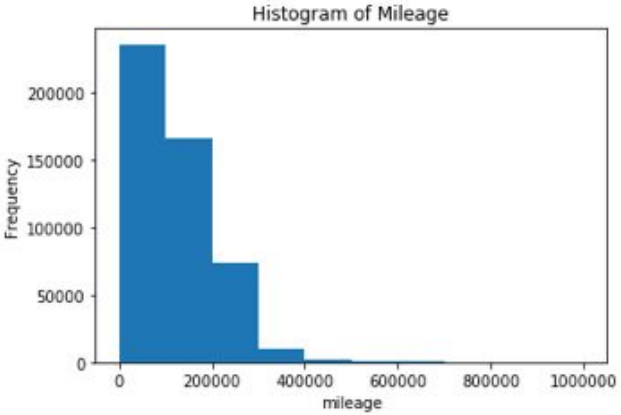
Developer: Will Song
QA: Varun Gupta

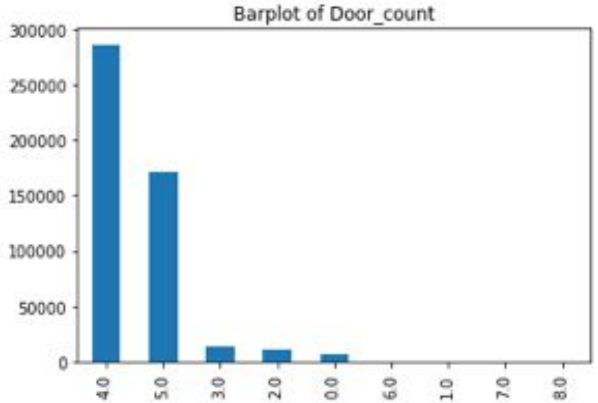
Project Motivation

- Encoun a dataset of used car information from Germany and Czech Republic markets
- Interested in developing a system to help predict used-car prices by simple parameters

Data Description

- Detailed used car transaction data in Germany and Czech Republic found on Kaggle





Summary of Price_eur

mean	3283.30
min	0.04
25%	1295.34
median	1295.34
75%	1998.52
max	900014.36

Model Description

- Linear regression model using python's **statsmodels** library
- Predictors include the following features:
  - `Mileage, Door_Count, Seat_Count, Engine_Power, Engine_Displacement`
- Response variable: `Price in euro`
- Success criteria:
  - Range of the response
  - Testing R^2

Interesting Insight

- The coefficient for `seat_count` is 850.49, which aligns with our common sense
- However, the coefficient for `door_count` is -806.11
- This suggests that the number of doors of a used car actually has a negative effect on predicting the price

Thanks for listening.
Have a nice day!