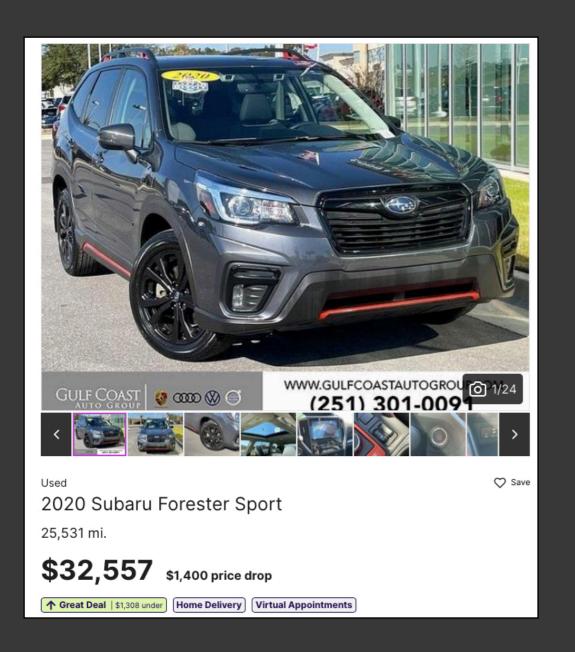




Project Goal

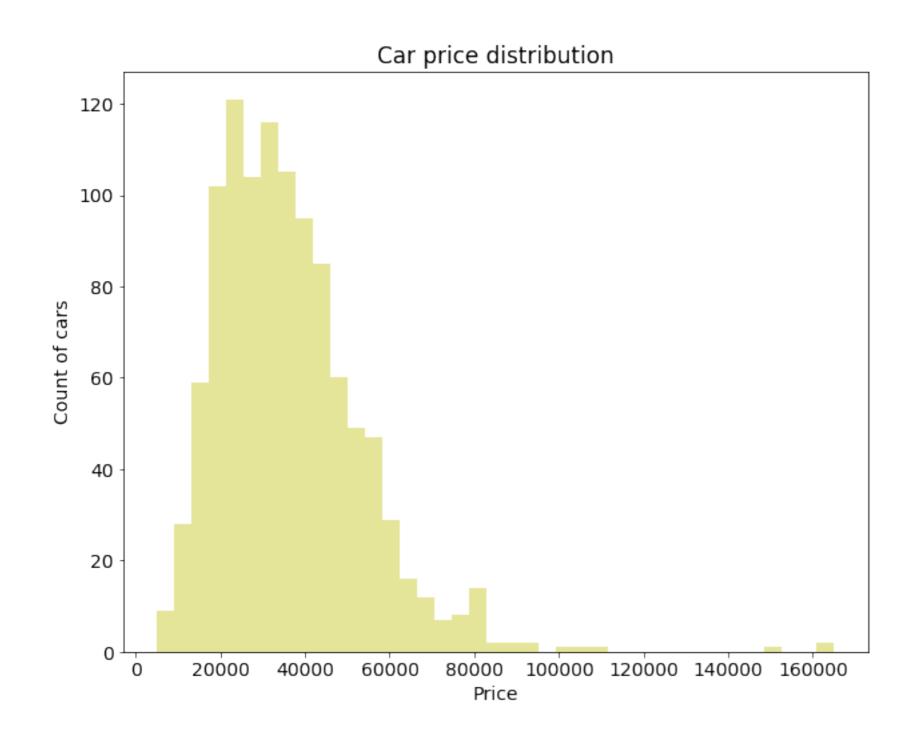
Create a machine learning model that accurately predicts the price of a car

Data



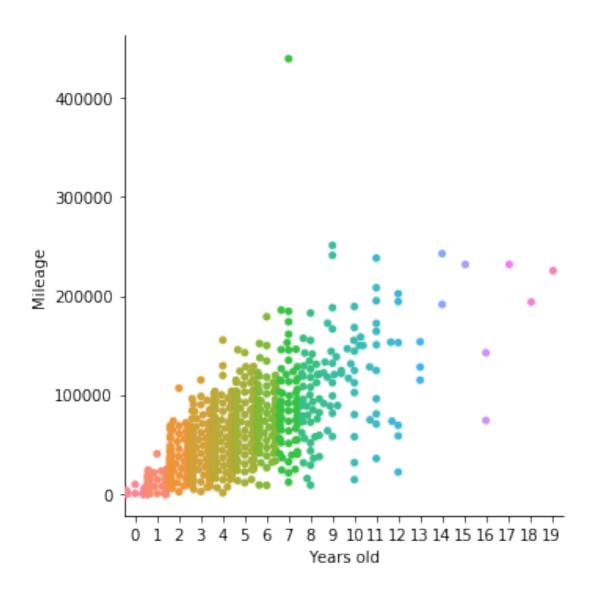
Basics	
Exterior color	Magnetite Gray Metallic
Interior color	Gray
Drivetrain	All-wheel Drive
MPG	26-33 🛈
Fuel type	Gasoline
Transmission	Automatic CVT
Engine	2.5L H4 16V GDI DOHC
VIN	JF2SKARC8LH487218
Stock #	A015174A
Mileage	25,531 mi.
Vehicle history	Free CARFAX 1-Owner Report 7

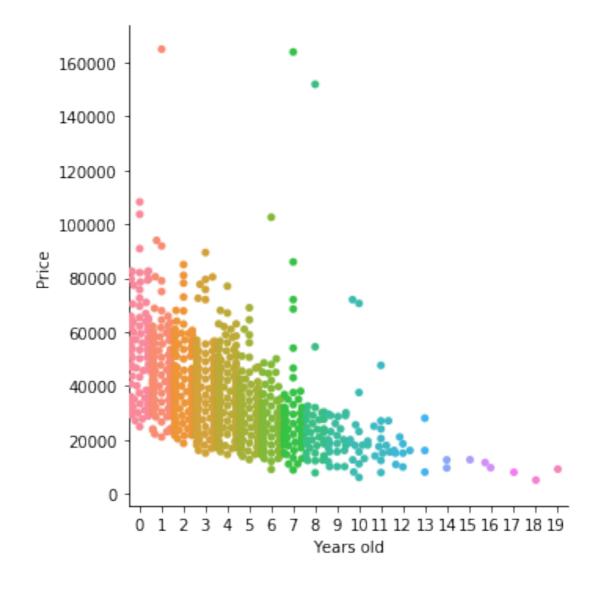
Distribution of Target Variable



- 1183 rows of data
- 10 columns

EDA

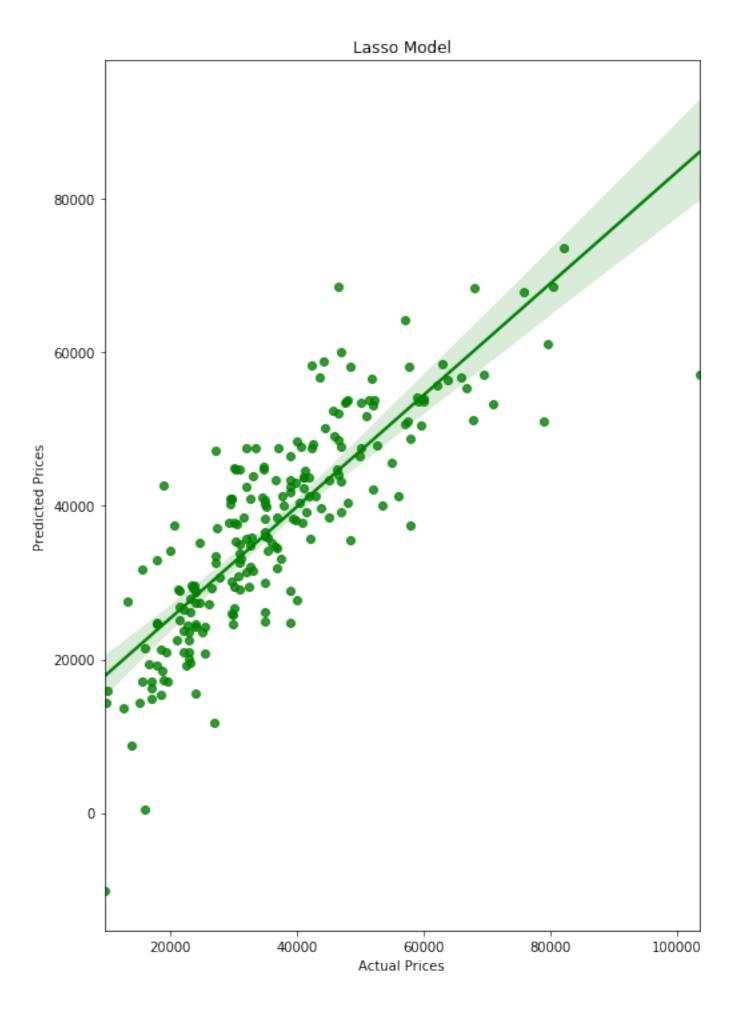




Older cars have more miles and are less expensive

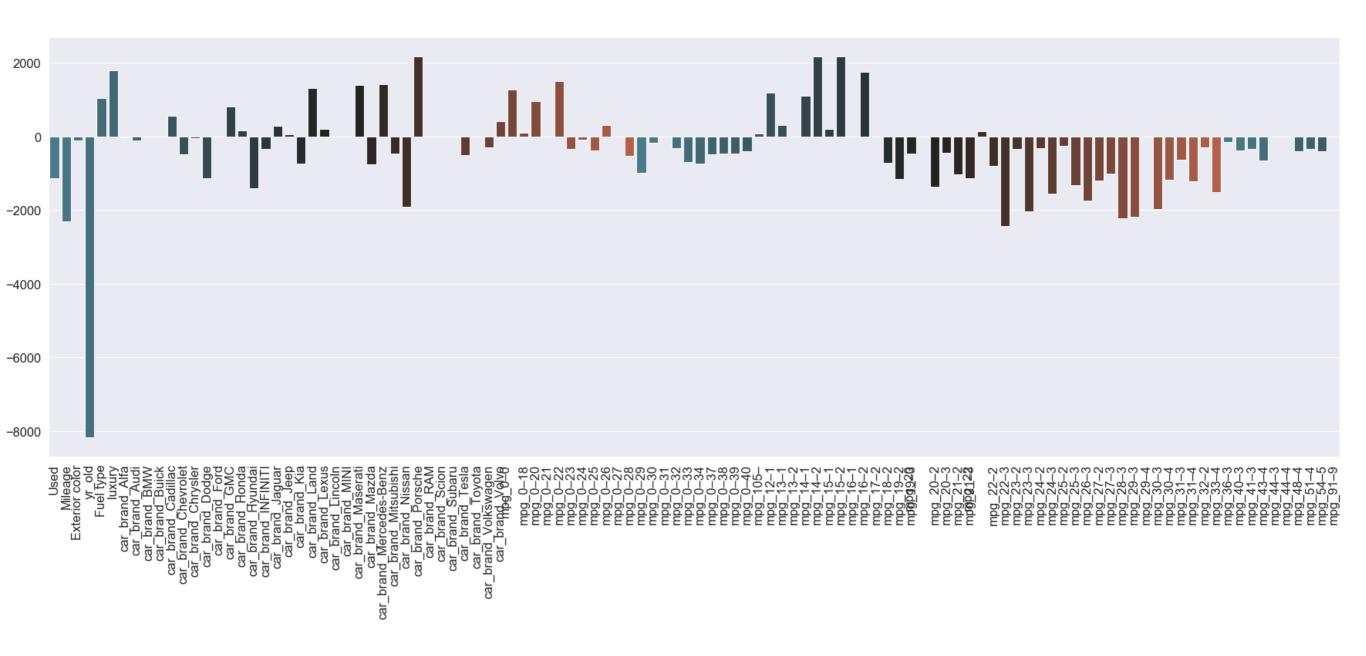
Final Model Performance:

Lasso Regression R-squared = 69.05 RMSE = \$93.10





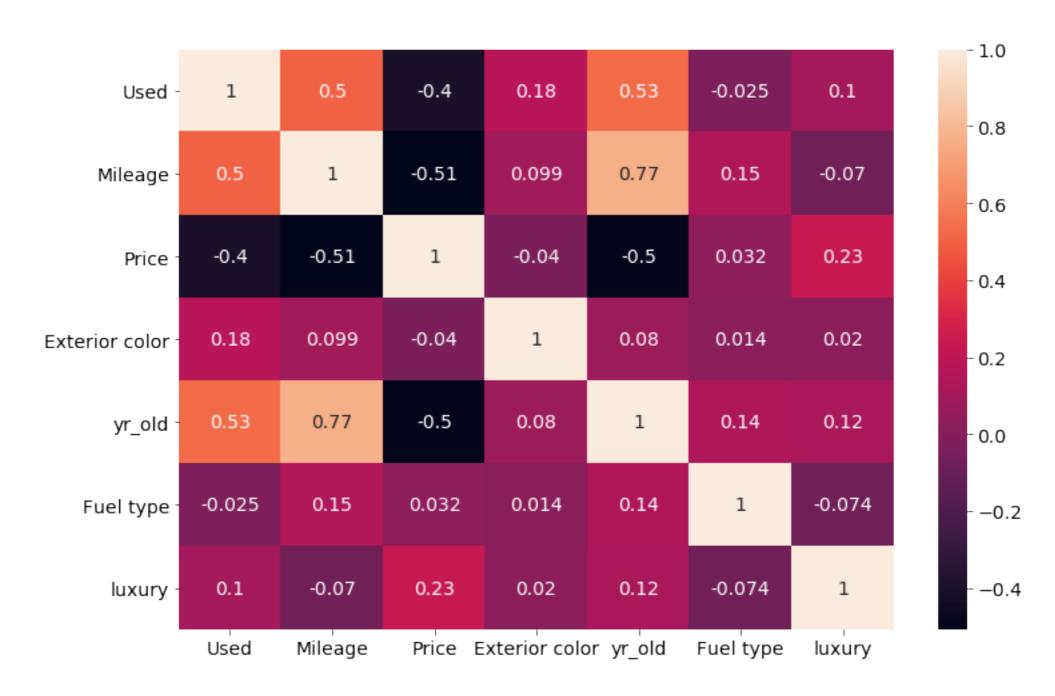
Model Coefficients



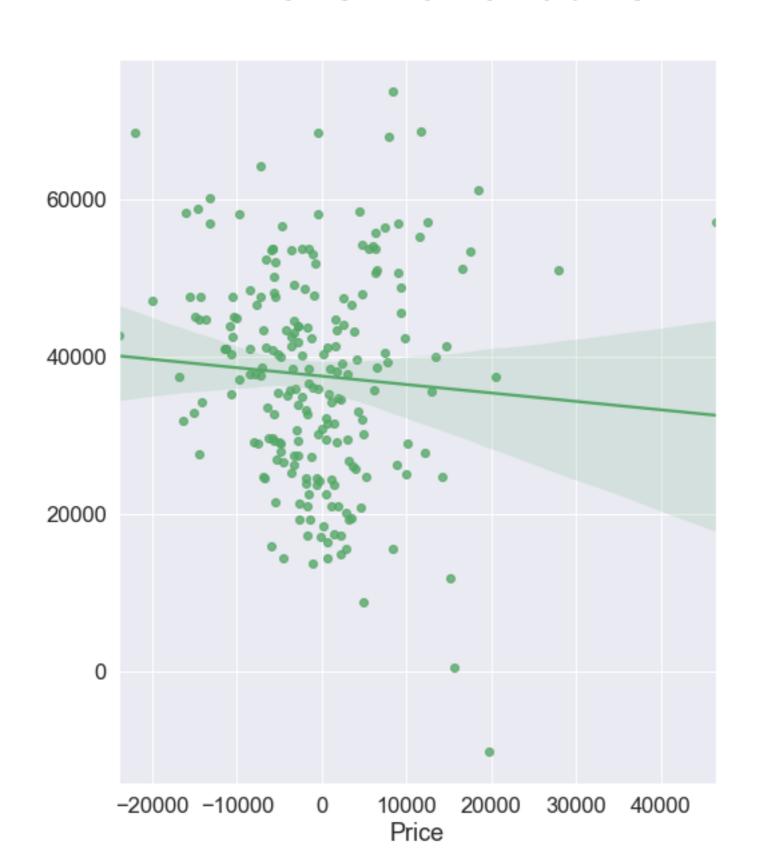


Other Charts

Correlation Heatmap



Residuals



Other Models

	Model	Training_score	Testing_score
0	OLS	72.8	72.8
1	Validation	79.5	69.3
2	Ridge	79.1	69.1
3	Lasso	79.1	69.0
4	Random Forest	64.8	64.8