Car Price Estimator, Jacob Frandsen, 8/10

Description
Predicting the right price for a used car is challenging especially when trying to sell a car or buy one. The machine learning model would analyzes various factors that affect the car's value and estimates the appropriate price. After training on data with actual sold prices, the model would then collect data from a used car sales website. It compares its estimated price to the current listed price and identifies any significant differences as outliers.

Data

Classifiable	**Nominal**	**Classifiable**	**Nominal**	**Classifiable**	**Classifiable**	**Nominal**
Car Model	Year	Location	Miles	Drive	Engine	Price
Honda	2003	84602	135,671	4WD	V8	15,000

Gathering the Data
We aim to collect comprehensive data that can influence the car's pricing. Key factors such as the **Car Model**, **Drive Type**, and **Engine Type** are significant determinants of its value. Additionally, the **Year** and **Mileage** serve as reliable indicators of a car's age, causing its price to decrease as mileage and age increase—a crucial aspect for the learning model to grasp. Lastly, the **Location** plays a vital role since car prices vary based on the source of purchase.

Potential data sets
Website to Scrape: https://www.carfinder.com/inventory/5NTJDDAF3PH057827
Cars sold history: https://www.kaggle.com/datasets/tsaustin/us-used-car-sales-data
Car Price History: https://www.kaggle.com/datasets/georgejnr/used-and-new-cars-datasets

How it will be labeled and used
Using the above datasets and other datasets that we are able to find we will remove the data that doesn't relate to our parameters (or possibly add more parameters). Then we will combine it all to get the most data for the learning model to train. Lastly, we will pass in some scraped data to see what it would predict based on the different parameters.