

Documentation of Dataset

The size of the dataset:

- 400 samples
- 11 features

Eleven features have been used in the dataset:

- **Brand** : Brand means the company which is manufacturing the car. We have considered two brands of cars. One is “Honda” and the other is “Toyota”.
- **Model** : The name of the variant of the car assigned by the brand. We have considered ten models for each of the brands. Each model has sub models. Like Camry TRD, Camry LE, Camry SE, Camry XSE, Camry XLE etc.

Honda	Toyota
Accord Hybrid	4Runner
HR-V	Camry
CR-V Hybrid	Corolla
Odyssey	Highlander
Civic	RAV4
Accord	Sienna
CR-V	Tundra
Fit	Tacoma
RidgeLine	Prius
Passport	Supra

- **MPG**: Full form of MPG is miles-per-gallon. It is used to give you an estimate of a Car’s fuel economy. Unit of it is “ city or highway(hwy).” An example Engine Type value is “ 26 city / 31 hwy ”. Here, 26 and 31 implies how many miles it will travel per gallon inside the city, and highway respectively.
- **Engine Type**: It has two factors. That is the type of fuel used and the number of cylinders in the engine. Fuel types can be gas, hybrid, petrol, turbo gas, etc. The unit of no. of cylinders is “cyl.” An example Engine Type value is “4-cyl, Hybrid,

2.0L". Here, 4-cyl implies 4 cylinders, Hybrid implies gas type that the car runs on. And finally, 2.0L, each of those cylinders has a volume of about 500cc.

- **Drive Type:** Drive type of a car consists of all of the components required to transfer the engine's energy to the wheels and propel the vehicle forward. Unit of it is WD. An example Drive Type value is "2WD, Front Wheel Drive". Here, 2WD implies 2 wheel Drive (uses only two of the four wheels to make the car move). Front wheel drive implies the engine drives the front wheels only.
- **Mileage:** Mileage refers to the number of miles traveled by car. Unit of it is Kilomiles (k miles).
- **Horsepower:** The term "horsepower" refers to the amount of power produced by an engine. Unit of it is HP.
- **Year:** The year of the car can be a bit of a misnomer; for example, a "2011 Accord" could be constructed in 2011 or compiled in 2011, or be an MY18 car. Usually, the year of the car refers to the year it was built/manufactured.
- **Exterior color:** Exterior color means the color which we can see from the outside of a car. Example: Red, Black, etc.
- **Passenger Capacity:** The maximum number of passengers that a car can carry is referred to as passenger capacity. Unit of it is P (Persons).
- **Price:** The invoice price of a vehicle is the amount paid by the dealership to the manufacturer. Here, price is the target feature/value of our dataset. Unit is \$(dollars).

Citation of the website of the data collection: <https://www.carmax.com/>