

1. Dataset Link :

“ [Fuel Efficiency Data](#)

“

2. Dataset Feature :

- city_mpg
- class
- combination_mpg
- cylinders
- displacement
- drive
- fuel_type
- highway_mpg
- make
- model
- transmission
- year

3. Dataset Outline :

- Dataset Name : Car Data
- Dataset Description :

This dataset contains various information about various vehicles . Such as

- ❖ Engine information
- ❖ Fuel consumption (MPG)
- ❖ Transmission
- ❖ Drive type

- ❖ Year of manufacture
- ❖ etc. The main purpose of this dataset is to analyze fuel efficiency of vehicles
- Number of Records : Total vehicle information: 550
- Feature Categories :
 - Categorical Features (Label/Type) :
 - ❖ make
 - ❖ model
 - ❖ class
 - ❖ drive
 - ❖ fuel_type
 - ❖ transmission
 - Numerical Features (Number) :
 - ❖ city_mpg
 - ❖ highway_mpg
 - ❖ combination_mpg
 - ❖ cylinders
 - ❖ displacement
 - ❖ year
- Target Variable : combination_mpg

4. Which advanced type model is applicable in these dataset for better results to published thesis papers? :

- CatBoost : Handles categorical data directly. No encoder required
- XGBoost : Provides high accuracy in numerical data , widely proven

- Combination : Comparing two models which make the paper stronger