Models :

Multi Linear Regression MSE 664363137.8089125

Polynomial Regression with (2)degree 556246582.6968912

Polynomial Regression with (3)degree 531501172.61696196

Polynomial Regression with (4)degree 485481005.43937206

Polynomial Regression with (5)degree 425582951.0231735

Best model is (5) degree

1. transform non-numerical labels “car\_maker” using LabelEncoder
2. get correlation between column and if there are columns has strong relation , we can delete one of them

1. Split the data to training and testing sets
2. Make fit data and select degree (linear , 2 ,3,…)
3. And we have new ɵ for all feature ɵx=[ ɵ0, ɵ1,…]
4. Get Y predict using ɵx \*X\_testing
5. Calculation MSE between Y predict and Y\_testing