

Desktop/Data Science/Mile Per Galon MPG\_Prediction

localhost:8890/notebooks/Desktop/Data Science/Mile Per Galon/MPG\_Prediction.ipynb

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pd.set\_option('display.max\_colwidth', 0)  
errorParameters

Out[44]:

	Classifier	MAE	MSE
0	Decision Tree	2.72979	11.9112
1	Linear Regression	3.01923	15.1637
2	KNN	2.51136	11.5292
3	Fully connected NN	2.87463	13.6729
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	2.82096	13.5212
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	2.82684	13.9517
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	2.77164	12.9528

In [45]: # visualize this table

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Out[43]:

	Classifier	MAE	MSE
0	Decision Tree	2.18943	7.57208
1	Linear Regression	2.34921	9.32968
2	KNN	1.91547	6.00337
3	Fully connected NN	2.16615	7.44607
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	2.15521	7.36483
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	19.8329	446.561
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	2.20326	7.35558

In [44]: # visualize this table

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errorParameters
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Out[43]:

	Classifier	MAE	MSE
0	Decision Tree	2.76483	13.5493
1	Linear Regression	3.39257	17.2937
2	KNN	2.68205	12.6324
3	Fully connected NN	3.00832	14.5089
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	19.7083	449.831
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	19.7089	449.857
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	3.06418	14.7852

In [44]: # visualize this table

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Out[44]:

	Classifier	MAE	MSE
0	Decision Tree	3.03162	16.6716
1	Linear Regression	3.38414	18.9809
2	KNN	2.84957	14.7643
3	Fully connected NN	2.81053	14.0146
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	3.13216	16.4629
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	3.24596	18.6513
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	20.0472	461.937

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```
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errorParameters
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Out[44]:

	Classifier	MAE	MSE
0	Decision Tree	2.88171	14.8528
1	Linear Regression	3.32604	18.0858
2	KNN	2.73894	14.0781
3	Fully connected NN	3.11469	15.3844
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	3.0938	15.5279
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	19.8703	446.792
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	3.28987	17.2758

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Code

```
2 : ['KNN', knnMae, knnMse],
3 : ['Fully connected NN', fullyMae, fullyMse],
4 : ['Halved0 NN ' + str(modelsSplits[0]), halved0Mae, halved0Mse],
5 : ['Halved1 NN ' + str(modelsSplits[1]), halved1Mae, halved1Mse],
6 : ['Halved2 NN ' + str(modelsSplits[2]), halved2Mae, halved2Mse]
}, index = ['Classifier', 'MAE', 'MSE']).T

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Out[44]:

	Classifier	MAE	MSE
0	Decision Tree	2.71875	14.1608
1	Linear Regression	3.13792	17.5847
2	KNN	2.62308	11.9693
3	Fully connected NN	2.70439	12.5138
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	21.059	509.668
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	2.7098	12.7783
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	2.87372	16.4259

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Out[44]:

	Classifier	MAE	MSE
0	Decision Tree	3.44031	22.592
1	Linear Regression	3.46703	22.7008
2	KNN	3.01667	16.0404
3	Fully connected NN	3.1569	17.1905
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	20.2232	481.506
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	3.14288	17.4217
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	3.31271	20.0135

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Out[43]:

	Classifier	MAE	MSE
0	Decision Tree	2.71875	14.1608
1	Linear Regression	3.13792	17.5847
2	KNN	2.62308	11.9693
3	Fully connected NN	2.6521	12.3837
4	Halved0 NN [['displacement', 'cylinders'], ['horsepower', 'weight']]	2.88271	16.6658
5	Halved1 NN [['displacement', 'horsepower'], ['cylinders', 'weight']]	3.05023	17.4995
6	Halved2 NN [['displacement', 'weight'], ['horsepower', 'cylinders']]	2.7235	12.4493

In [44]: # visualize this table

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