

File name: C:\Users\hp\Downloads\Data Science Assignment\Data Science Assignment\Automobiles-Data.xlsx
Format: Microsoft Excel spreadsheet

Data

Data instances: 170
Features: symboling, normalized-losses, make, fuel-type, aspiration, num-of-doors, body-style, drive-wheels, engine-location, wheel-base, length, width, height, curb-weight, engine-type, num-of-cylinders, engine-size, fuel-system, bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg, price (total: 26 features)

Train Data

Preprocess

Settings

Impute Missing Values: Remove rows with missing values.

Write a comment...

SVM

Name: SVM

Model parameters

SVM type: v-SVM, $\gamma=0.7500000000000001$, C=1.0
Kernel: Polynomial (auto $\gamma + 8.0^{0.0}$)
Numerical tolerance: 0.01
Iteration limit: 5

Data

Data instances: 165
Features: symboling, make, fuel-type, aspiration, num-of-doors, body-style, drive-wheels, engine-location, wheel-base, length, width, height, curb-weight, engine-type, num-of-cylinders, engine-size, fuel-system, bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg (total: 24 features)
Target: price

Write a comment...

Random Forest

Name: Random Forest

Model parameters

Number of trees: 20
Maximal number of considered features: unlimited
Maximal tree depth: unlimited
Stop splitting nodes with maximum instances: 5

Data

Data instances: 165
Features: symboling, make, fuel-type, aspiration, num-of-doors, body-style, drive-wheels, engine-location, wheel-base, length, width, height, curb-weight, engine-type, num-of-cylinders, engine-size, fuel-system, bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg (total: 24 features)
Target: price

Write a comment...

Linear Regression

Name: Linear Regression

Model parameters

Regularization: Elastic Net Regression with $\alpha=0.009$ and L1:L2 ratio of 0.010:0.99

Data

Data instances: 165
Features: symboling, make, fuel-type, aspiration, num-of-doors, body-style, drive-wheels, engine-location, wheel-base, length, width, height, curb-weight, engine-type, num-of-cylinders, engine-size, fuel-system, bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg (total: 24 features)
Target: price

Write a comment...

Neural Network

Name: Neural Network

Hidden layers: 25, 25, 25
Activation: ReLU
Solver: LBFGS-B
Alpha: 0.001
Max iterations: 30

Data

Data instances: 165
Features: symboling, make, fuel-type, aspiration, num-of-doors, body-style, drive-wheels, engine-location, wheel-base, length, width, height, curb-weight, engine-type, num-of-cylinders, engine-size, fuel-system, bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg (total: 24 features)
Target: price

Write a comment...

Test & Score

Settings

Sampling type: Stratified 10-fold Cross validation

Scores

Method	MSE	RMSE	MAE	R2
SVM	13670491.079	3697.363	2380.640	0.762
Random Forest	5030189.353	2242.808	1465.016	0.912
Neural Network	6128912.145	2475.664	1710.477	0.894
Linear Regression	6065738.556	2462.872	1689.303	0.893

Write a comment...

Predictions

Info

Data: 165 instances.
Predictors: 4
Task: Regression

Data & Predictions

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Name: SVM																													
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