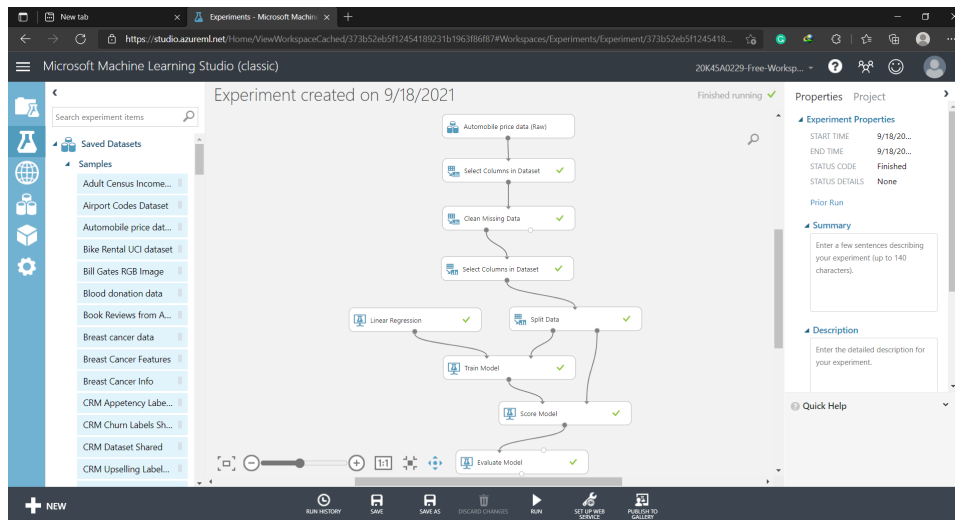


AZURE ML CLASSIC STUDIO.

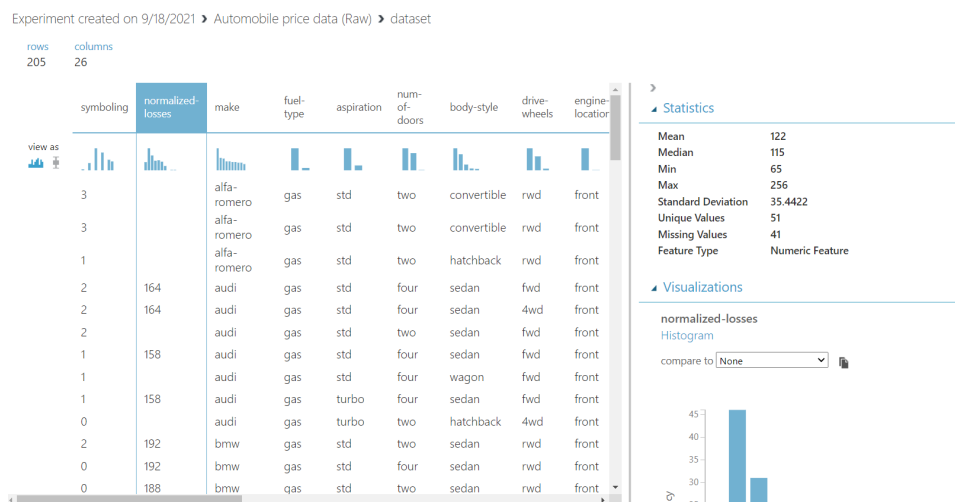
#Machine Learning Project Workflow:

NAME: K.RAJU

PIN: 20K45A0216



Data Visualization



Statistics

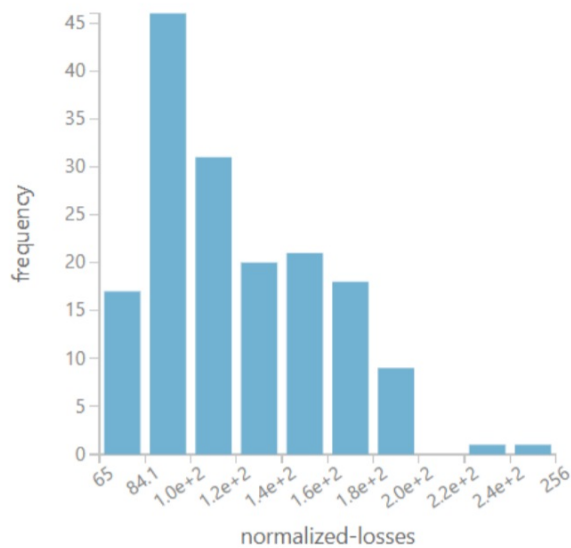
Mean	122
Median	115
Min	65
Max	256
Standard Deviation	35.4422
Unique Values	51
Missing Values	41
Feature Type	Numeric Feature

Visualizations

normalized-losses

Histogram

compare to None



☐ normalized-losses log scale

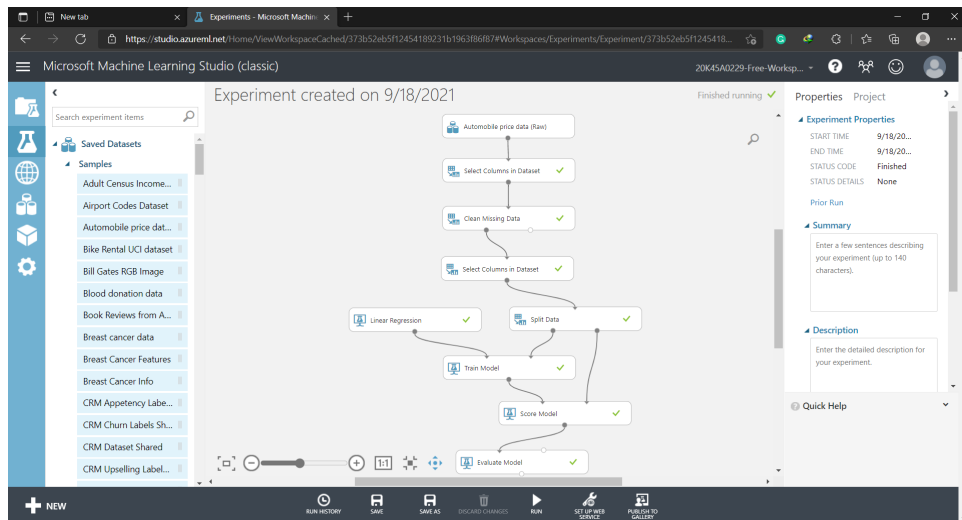
☐ frequency log scale

bins

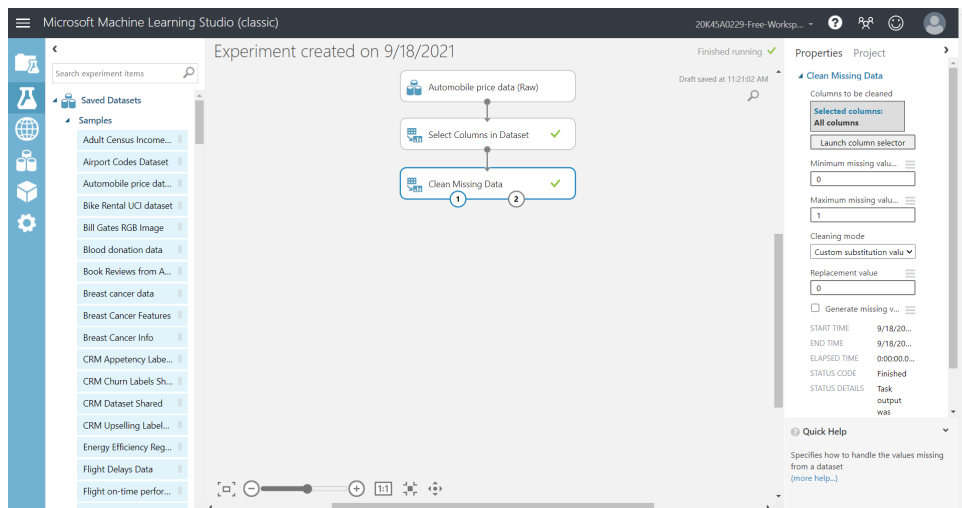
☐ cumulative distribution

☐ probability density

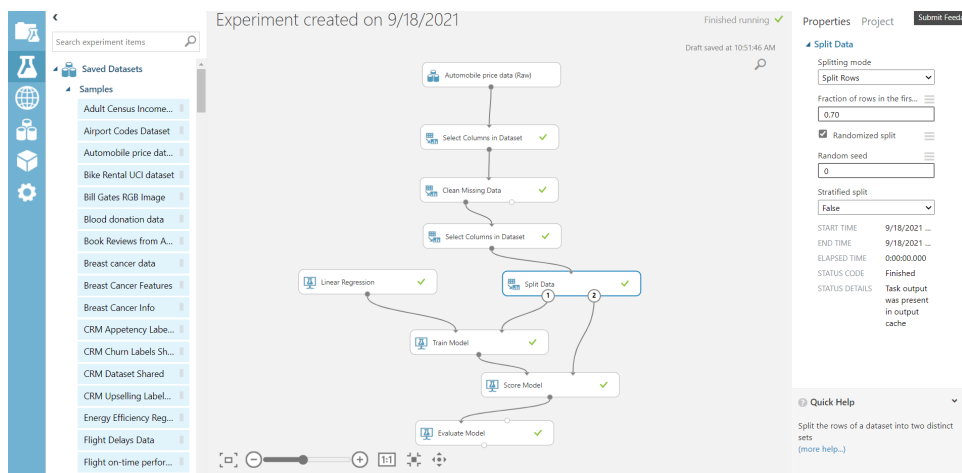
Explore Data



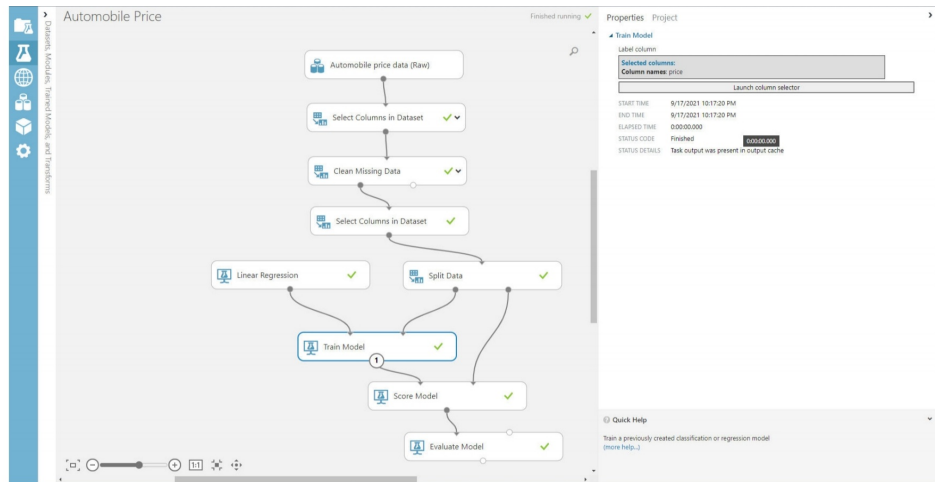
Cleaning Data



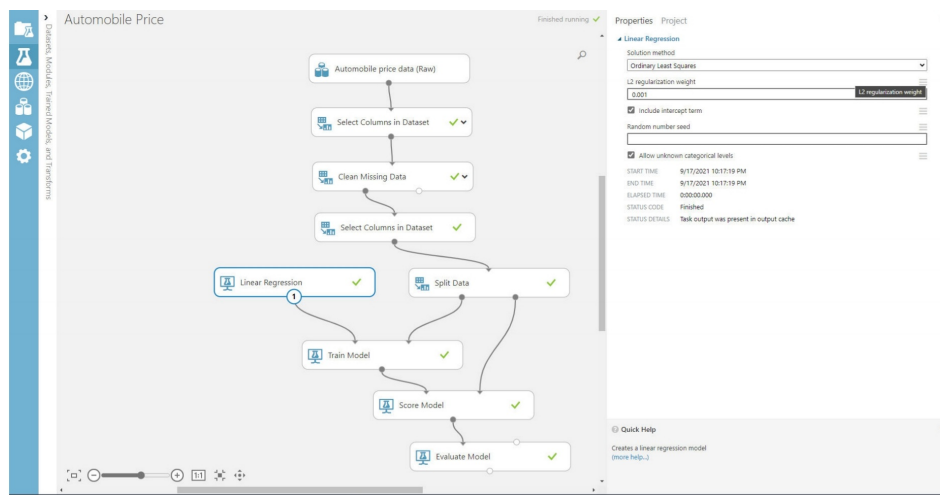
Split Data



Model Training



Using Linear Regression to train the model



Experiment created on 9/18/2021 ▶ Train Model ▶ Trained model

Batch Linear Regressor

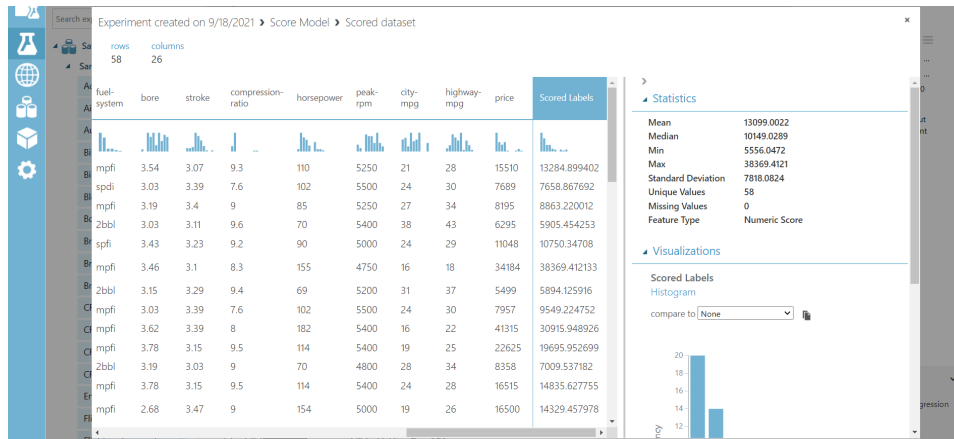
Settings

Setting	Value
Bias	True
Regularization	0.001
Allow Unknown Levels	True
Random Number Seed	

Feature Weights

Feature	Weight
engine-type_dohcv_1	-16001.2
engine-location_front_0	-14891.6
make_mercedes-benz_7	14200.5
make_bmw_1	11170
engine-location_rear_1	10514.5
make_isuzu_5	-9245.28
make_renault_13	8672.82
fuel-system_idi_3	7467.18
engine-type_ohcf_4	6150.05
make_dodge_3	-5967.84
make_porsche_12	-5486.65
fuel-system_1bbl_0	-5028.94
make_mitsubishi_8	-4723.05
Bias	-4377.1
make_subaru_15	-4364.46
engine-type_dohc_0	4079.71
bore	-3983.24
make_plymouth_11	-3960.04
engine-type_ohcv_5	3198.52
make_chevrolet_2	-2956.57
engine-type_rotor_6	-2860.06
num-of-cylinders_two_4	-2860.06
aspiration_std_0	-2819.57
engine-type_ohc_3	2755.8
num-of-cylinders_four_2	2733.82
num-of-cylinders_six_3	-2386.61
num-of-doors_two_2	-2369.77
make_toyota_16	-2203.67
fuel-system_spdi_6	-2168
fuel-system_4bbl_2	-1983.39

Evaluate Model



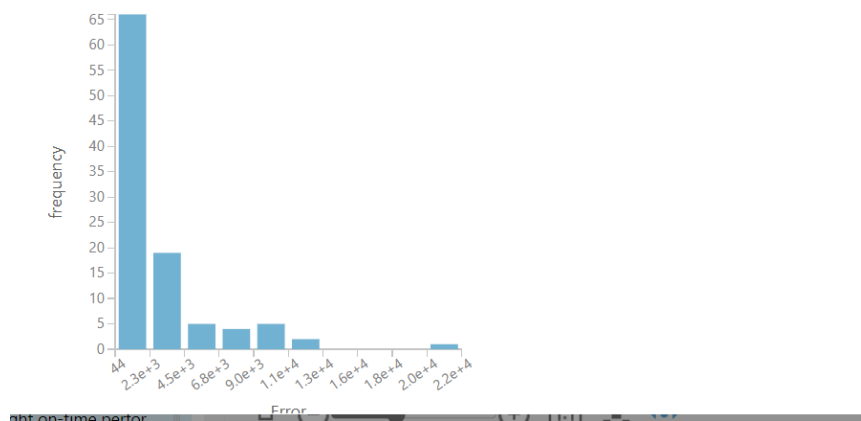
Evaluation result

Experiment created on 9/18/2021 > Evaluate Model > Evaluation results

Metrics

Mean Absolute Error	2787.699422
Root Mean Squared Error	4543.711151
Relative Absolute Error	0.422351
Relative Squared Error	0.277794
Coefficient of Determination	0.722206

Error Histogram



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