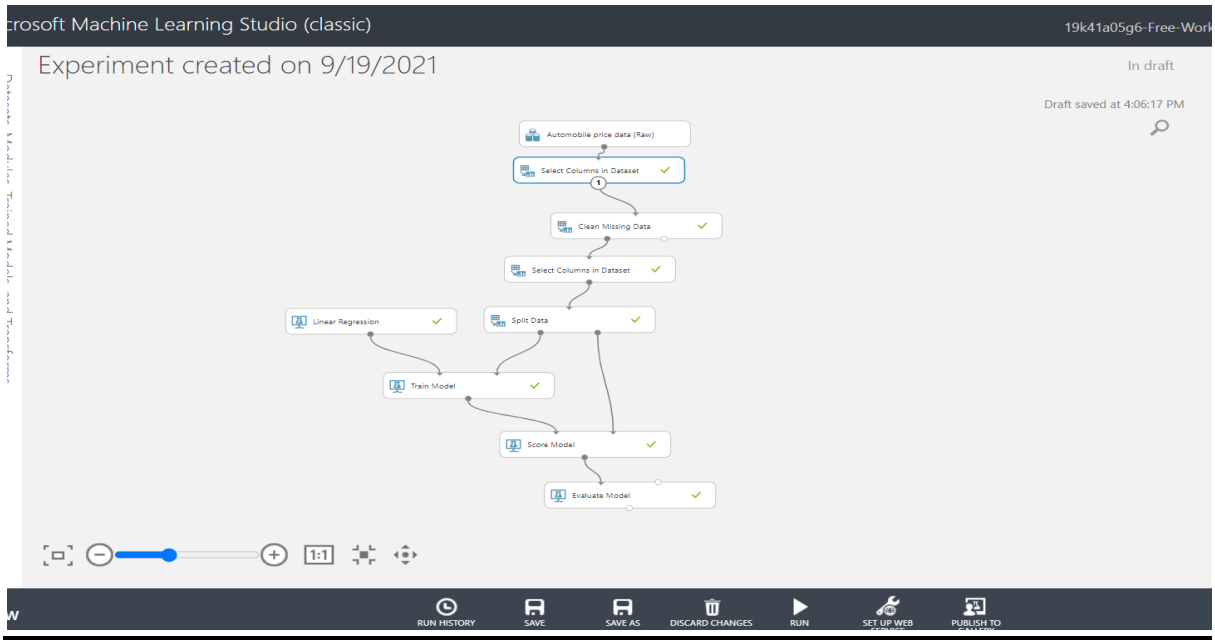
AI Assignment

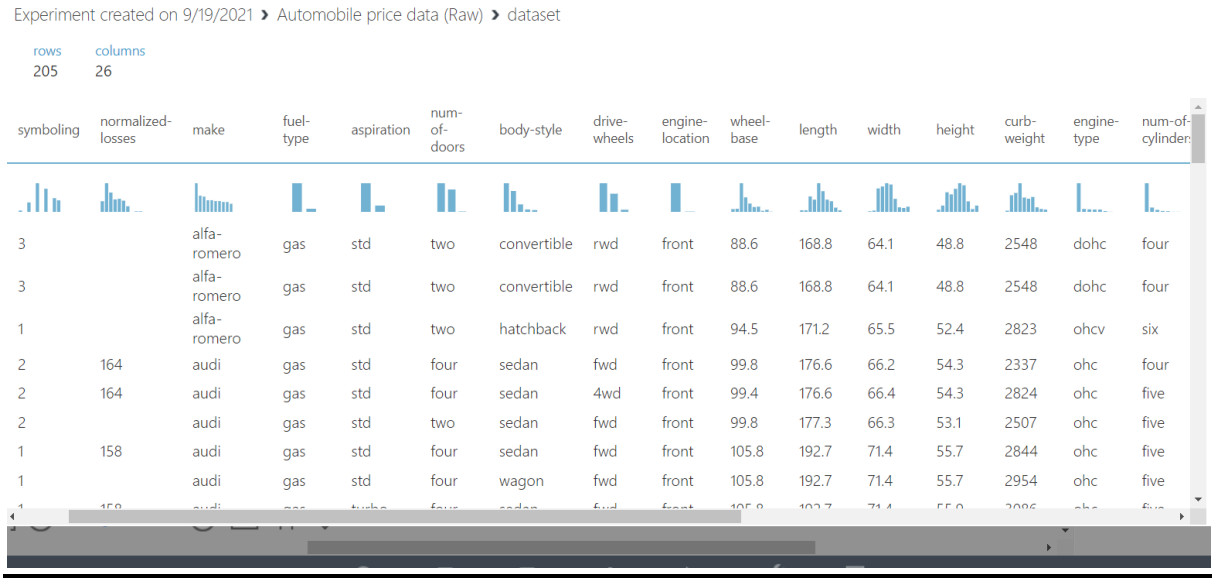
19K41A05G6

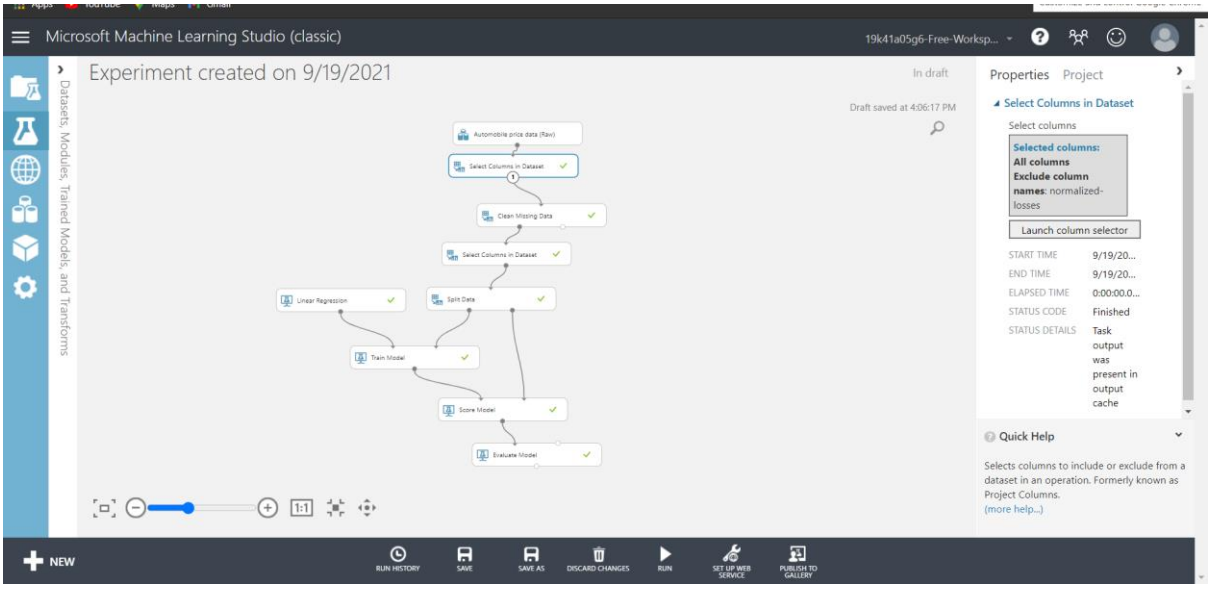
Machine learning project workflow:

Workflow:

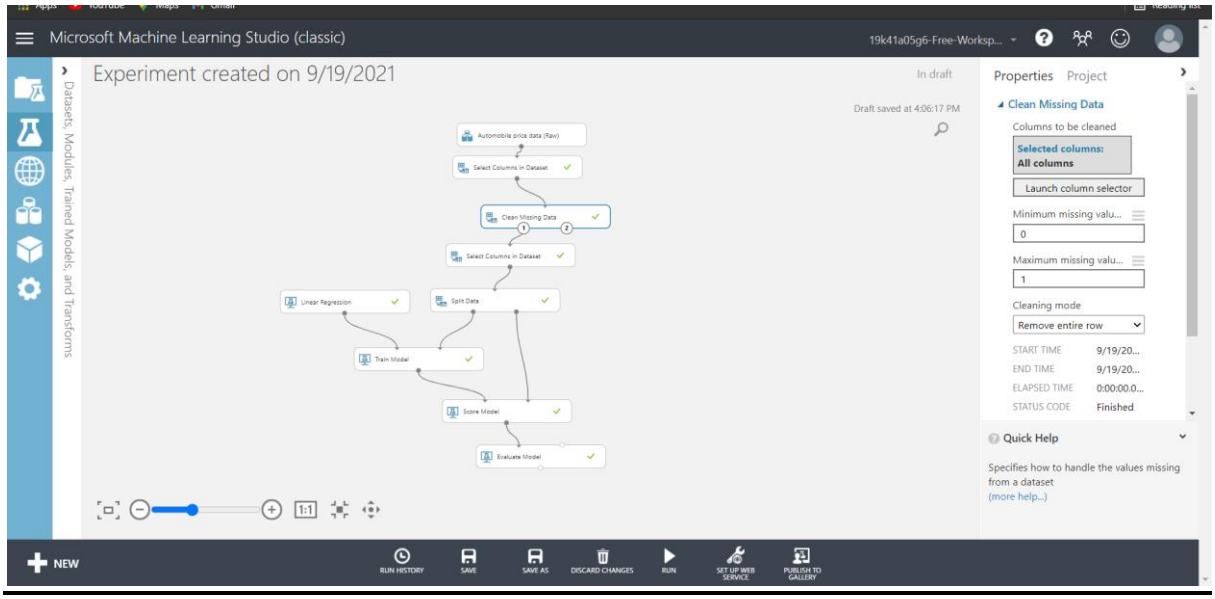


Explore Data:

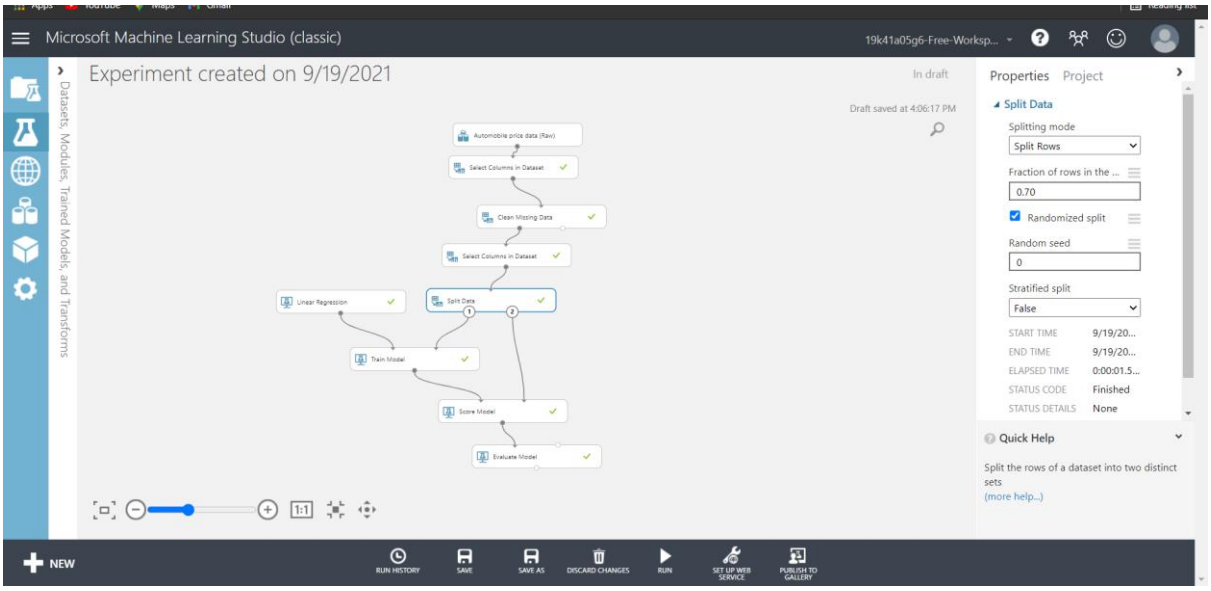




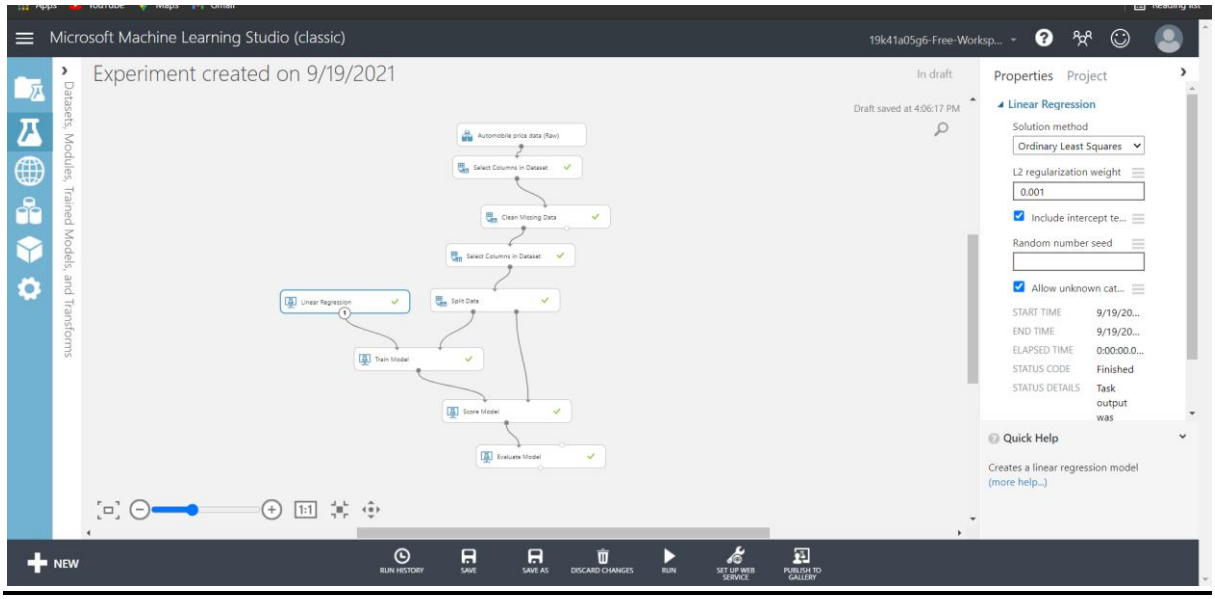
Data Cleaning:



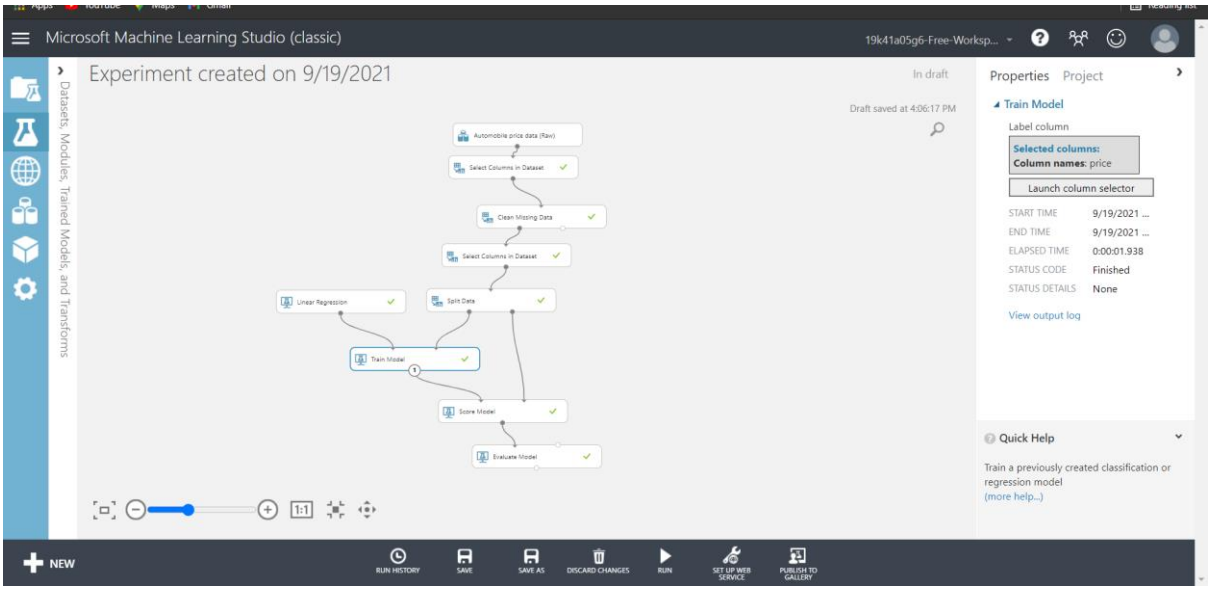
Split Data:



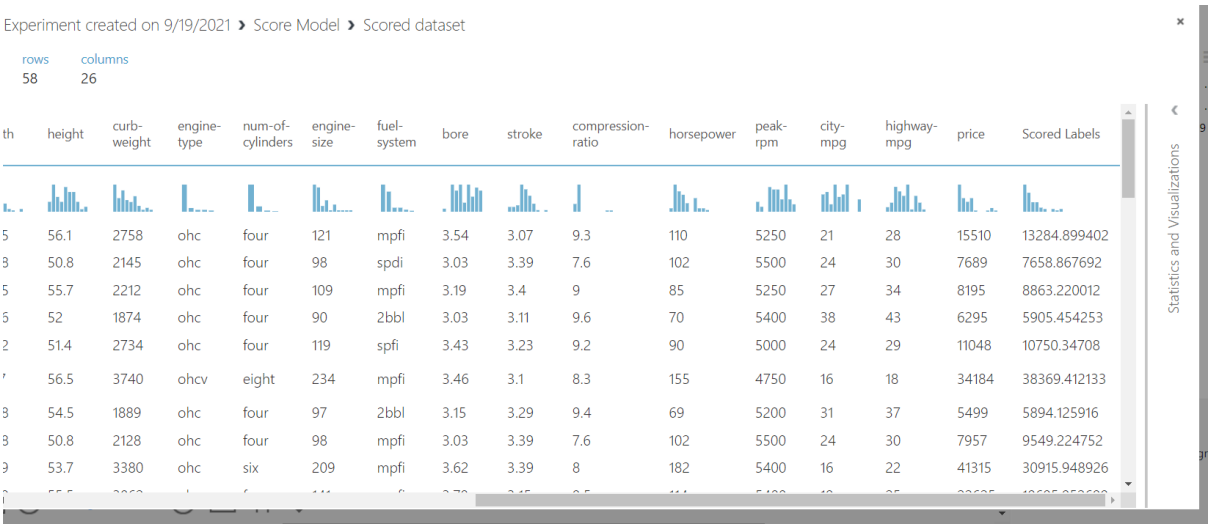
Linear Regression:



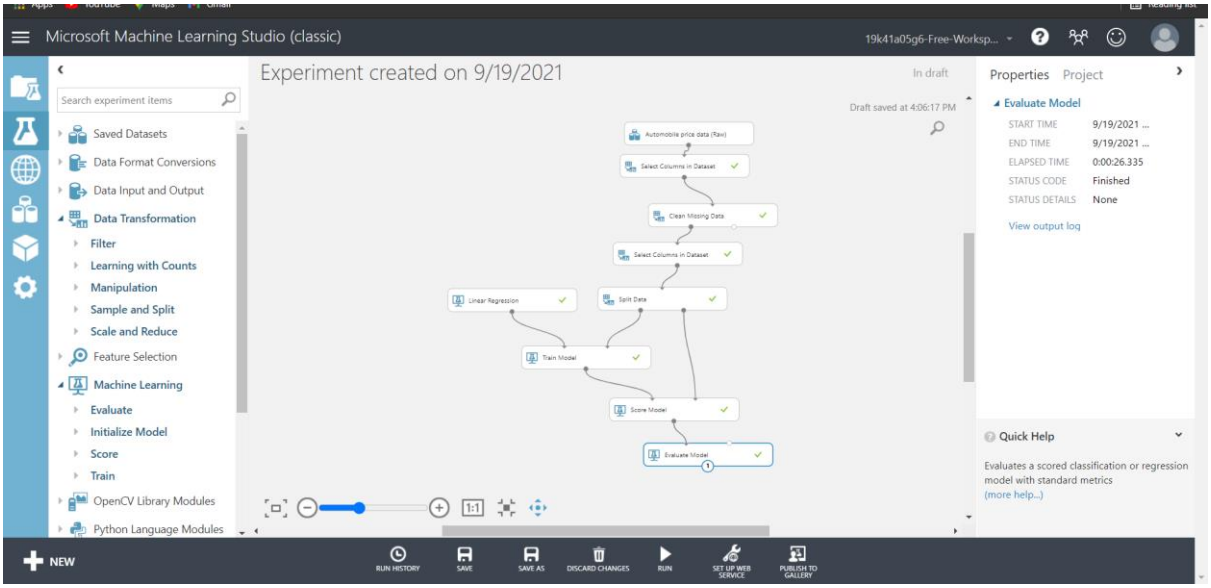
Model Training and Algorithm:



Score Model and Evaluation:



th	height	curb-weight	engine-type	num-of-cylinders	engine-size	fuel-system	bore	stroke	compression-ratio	horsepower	peak-rpm	city-mpg	highway-mpg	price	Scored Labels
5	56.1	2758	ohc	four	121	mpfi	3.54	3.07	9.3	110	5250	21	28	15510	13284.899402
3	50.8	2145	ohc	four	98	spdi	3.03	3.39	7.6	102	5500	24	30	7689	7658.867692
5	55.7	2212	ohc	four	109	mpfi	3.19	3.4	9	85	5250	27	34	8195	8863.220012
5	52	1874	ohc	four	90	2bbl	3.03	3.11	9.6	70	5400	38	43	6295	5905.454253
2	51.4	2734	ohc	four	119	spfi	3.43	3.23	9.2	90	5000	24	29	11048	10750.34708
'	56.5	3740	ohcv	eight	234	mpfi	3.46	3.1	8.3	155	4750	16	18	34184	38369.412133
3	54.5	1889	ohc	four	97	2bbl	3.15	3.29	9.4	69	5200	31	37	5499	5894.125916
3	50.8	2128	ohc	four	98	mpfi	3.03	3.39	7.6	102	5500	24	30	7957	9549.224752
9	53.7	3380	ohc	six	209	mpfi	3.62	3.39	8	182	5400	16	22	41315	30915.948926



Results:

Experiment created on 9/19/2021 › Evaluate Model › Evaluation results

Metrics

Mean Absolute Error	1605.514464
Root Mean Squared Error	2385.271889
Relative Absolute Error	0.266248
Relative Squared Error	0.083112
Coefficient of Determination	0.916888

Error Histogram

Experiment created on 9/19/2021 › Evaluate Model › Evaluation results

Metrics

Error Histogram