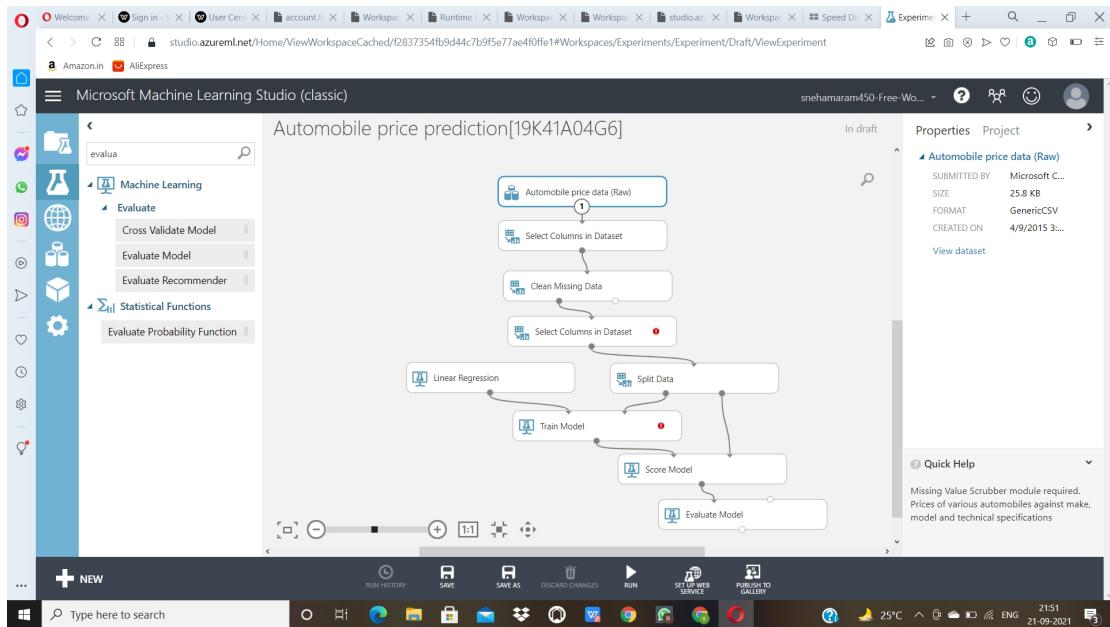


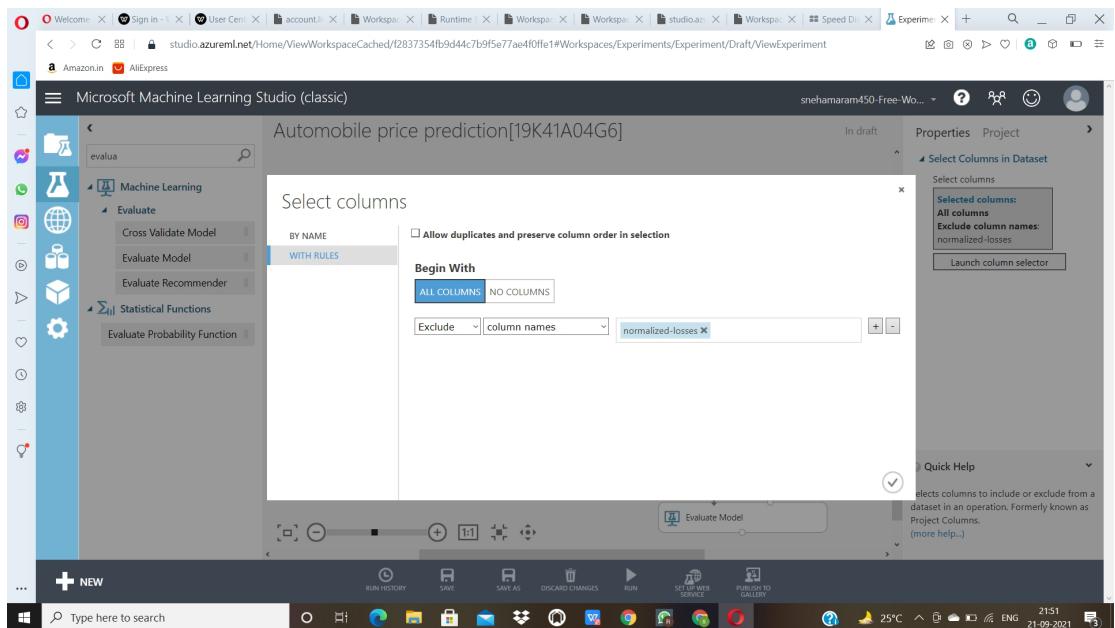
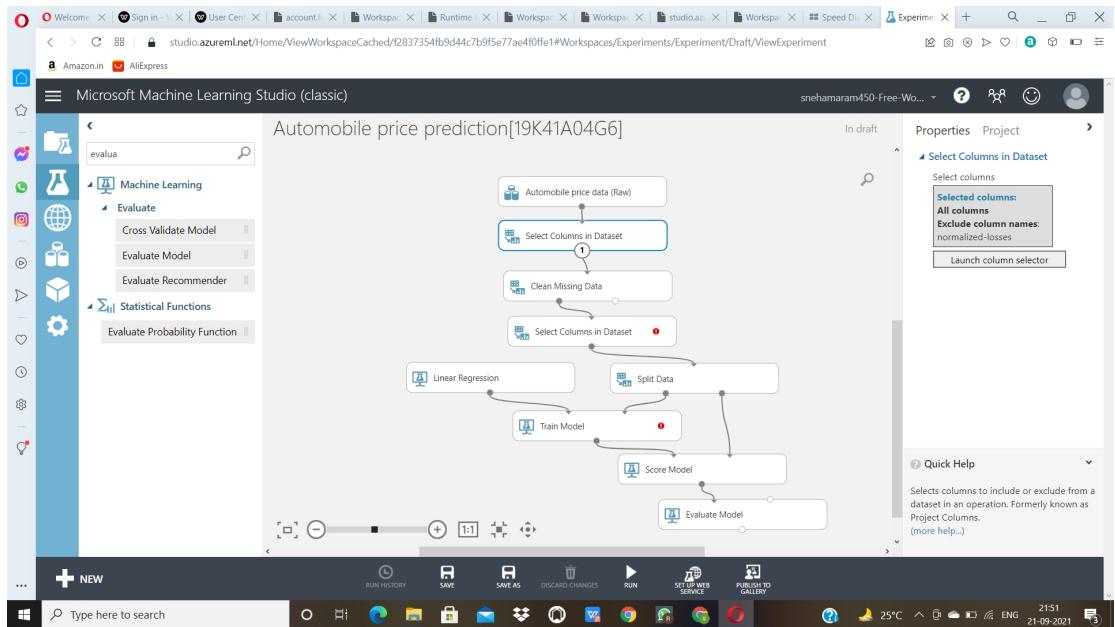
AI ASSIGNMENT(19K41A04G6)

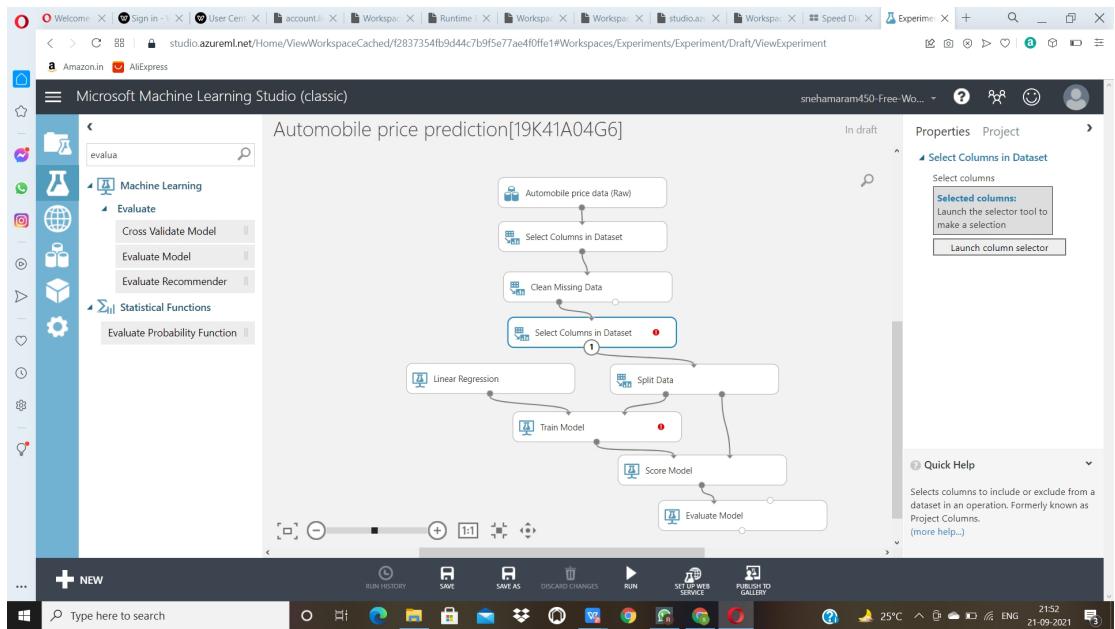
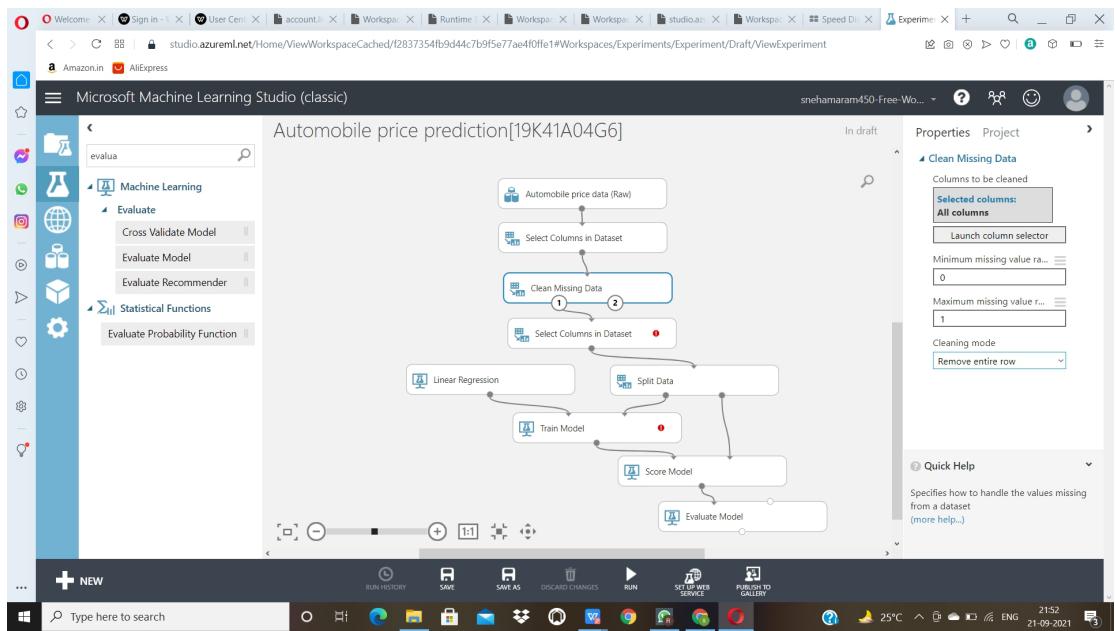
Machine Learning Project Workflow:

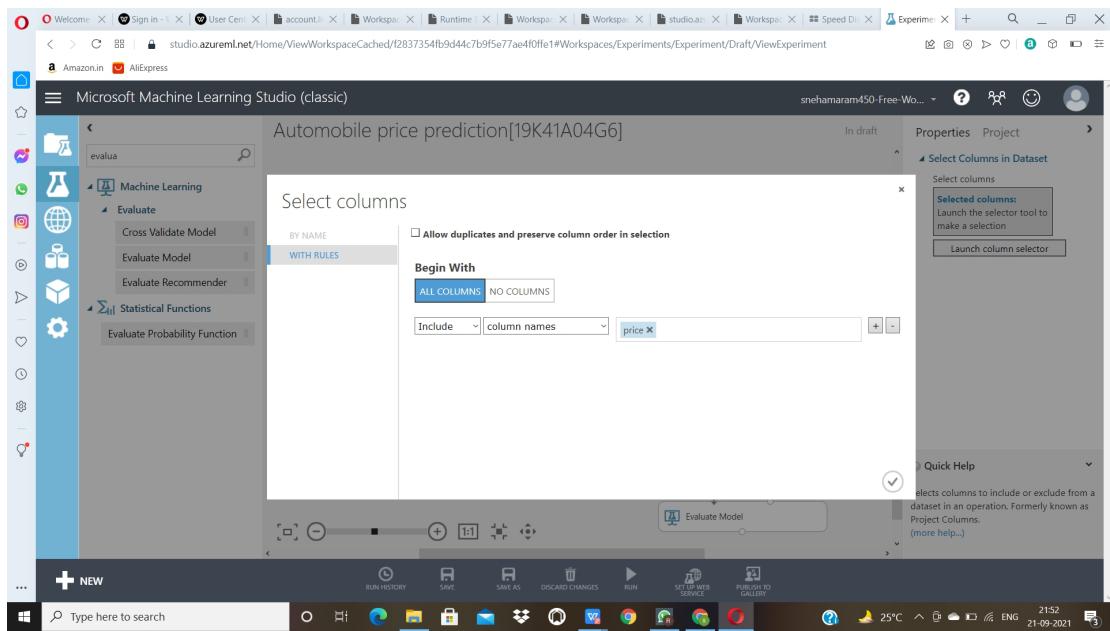
Workflow:



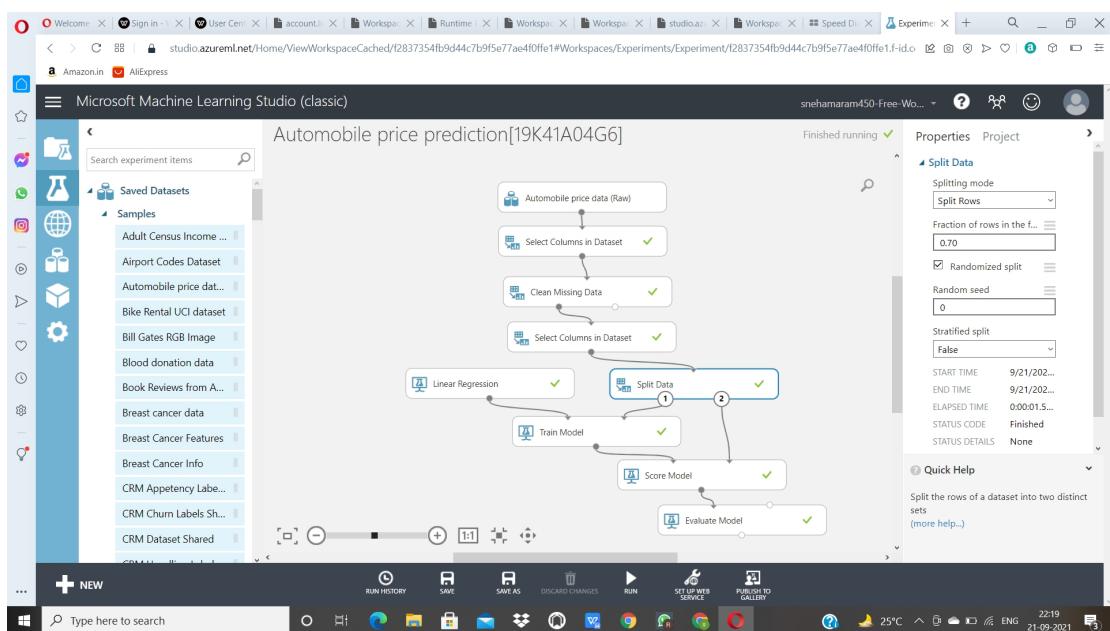
Explore Data:



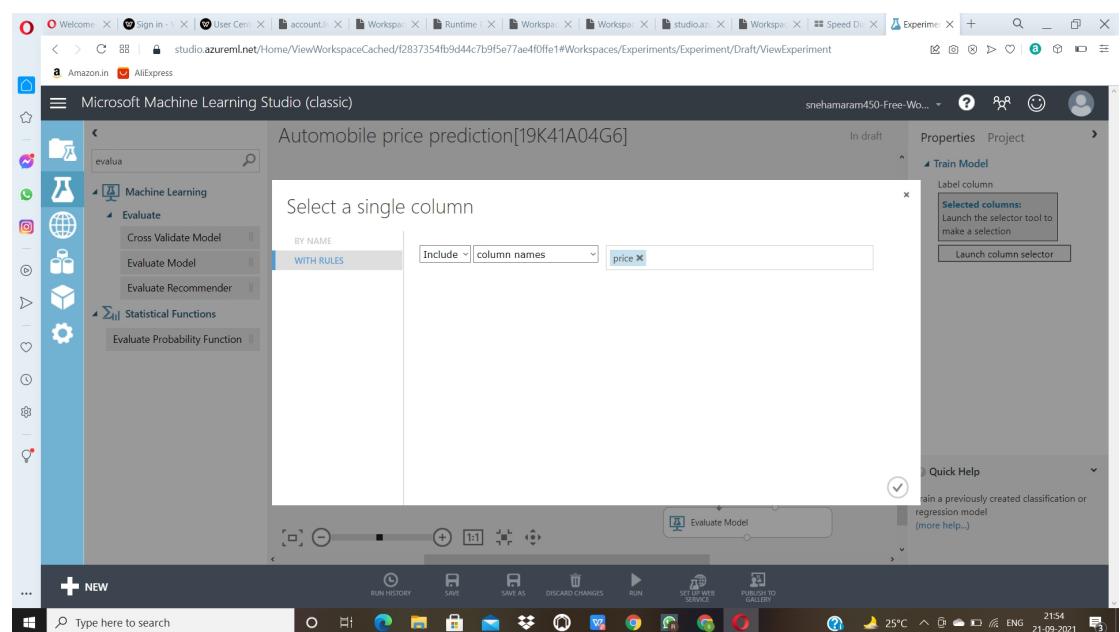
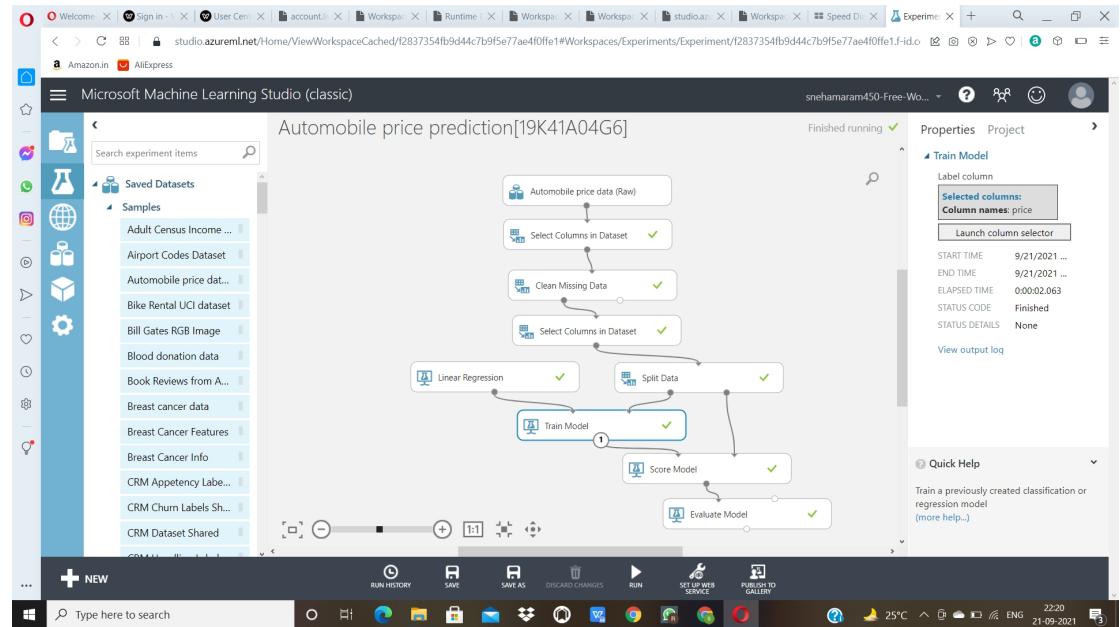




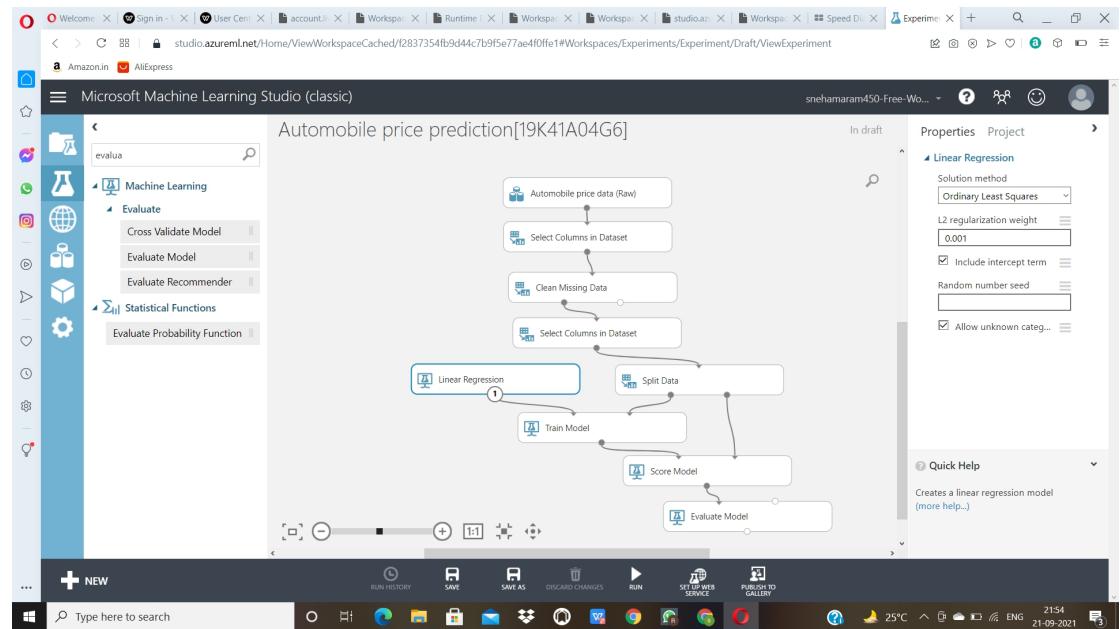
Split Data:



Model Training and Algorithm:



Using Linear Regression to train the model:



Score Model and Evaluation Model:

The screenshot shows the Microsoft Machine Learning Studio (classic) interface after the experiment has run. The status bar at the top indicates "Finished running". The main workspace displays a table titled "Automobile price prediction[19K41A04G6] > Score Model > Scored dataset". The table has columns: rows (58), columns (26). The data includes columns for bore, stroke, compression-ratio, horsepower, peak-rpm, city-mpg, highway-mpg, price, and Scored Labels. The "Visualizations" pane on the right shows a histogram with the message "To view, select a column in the table".

	bore	stroke	compression-ratio	horsepower	peak-rpm	city-mpg	highway-mpg	price	Scored Labels
A	3.54	3.07	9.3	110	5250	21	28	15510	13284.899402
B	3.03	3.39	7.6	102	5500	24	30	7689	7658.867692
B	3.19	3.4	9	85	5250	27	34	8195	8863.220012
B	3.03	3.11	9.6	70	5400	38	43	6295	5905.454253
B	3.43	3.23	9.2	90	5000	24	29	11048	10750.34708
B	3.46	3.1	8.3	155	4750	16	18	34184	38369.412133
B	3.15	3.29	9.4	69	5200	31	37	5499	5894.125916
C	3.03	3.39	7.6	102	5500	24	30	7957	9549.224752
C	3.62	3.39	8	182	5400	16	22	41315	30915.948926
G	3.70	3.23	8.5	114	5400	10	25	22625	10605.052600

Evaluation Results:

Microsoft Machine Learning Studio (classic)

Automobile price prediction[19K41A04G6] > 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

The histogram displays the frequency of error values across different bins. The x-axis is labeled 'Error' and ranges from -1.0e-3 to 1.0e-4. The y-axis is labeled 'frequency' and ranges from 0 to 26. The distribution is highly right-skewed, with the highest frequency occurring in the first bin.

Error Bin	Frequency
-1.0e-3 to -8.0e-4	26
-8.0e-4 to -6.0e-4	18
-6.0e-4 to -4.0e-4	4
-4.0e-4 to -2.0e-4	2
-2.0e-4 to 0.0	1

RUN HISTORY SAVE DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Microsoft Machine Learning Studio (classic)

Automobile price prediction[19K41A04G6] > Evaluate Model > Evaluation results

Coefficient of Determination

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RUN HISTORY SAVE DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY