Azure ML Classic Studio

EXPERIMENT

Movie rating 19/09/2021

1 19K41A04H6 • September 19, 2021

Be the first to like.

Summary

This model checks the rating of a movie based on which movie id has higher rating point using linear regression

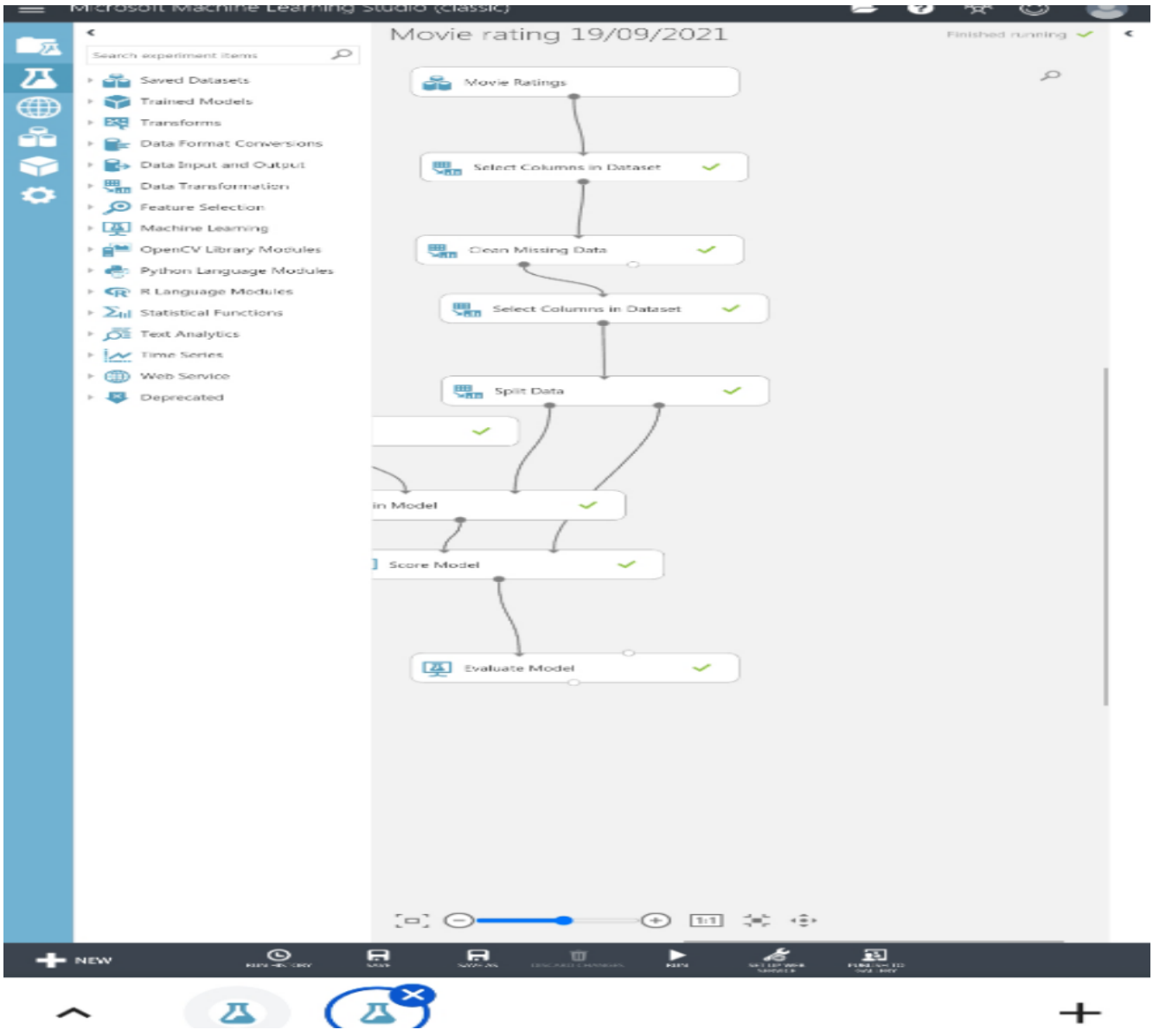
Description

This model will gives the highest rated movie from all the other movies and saves our time for seeing a high rating movie

Gallery link:

https://gallery.azure.ai/Experiment/Movie-rating-19-09-2021#

Workflow


Microsoft Machine Learning Studio (classic)
Movie rating 19/09/2021
Finished running
Search experiment items
Saved Datasets
Trained Models
Transforms
Data Format Conversions
Data Input and Output
Data Transformation
Feature Selection
Machine Learning
OpenCV Library Modules
Python Language Modules
R Language Modules
Statistical Functions
Text Analytics
Time Series
Web Service
Deprecated
Movie Ratings
Select Columns in Dataset
Clean Missing Data
Select Columns in Dataset
Split Data
in Model
Score Model
Evaluate Model
NEW

Import Data:

importing the RAW dataset which is in CSV format.

the dataset is pre-available in the Azure ML Classic Studio.

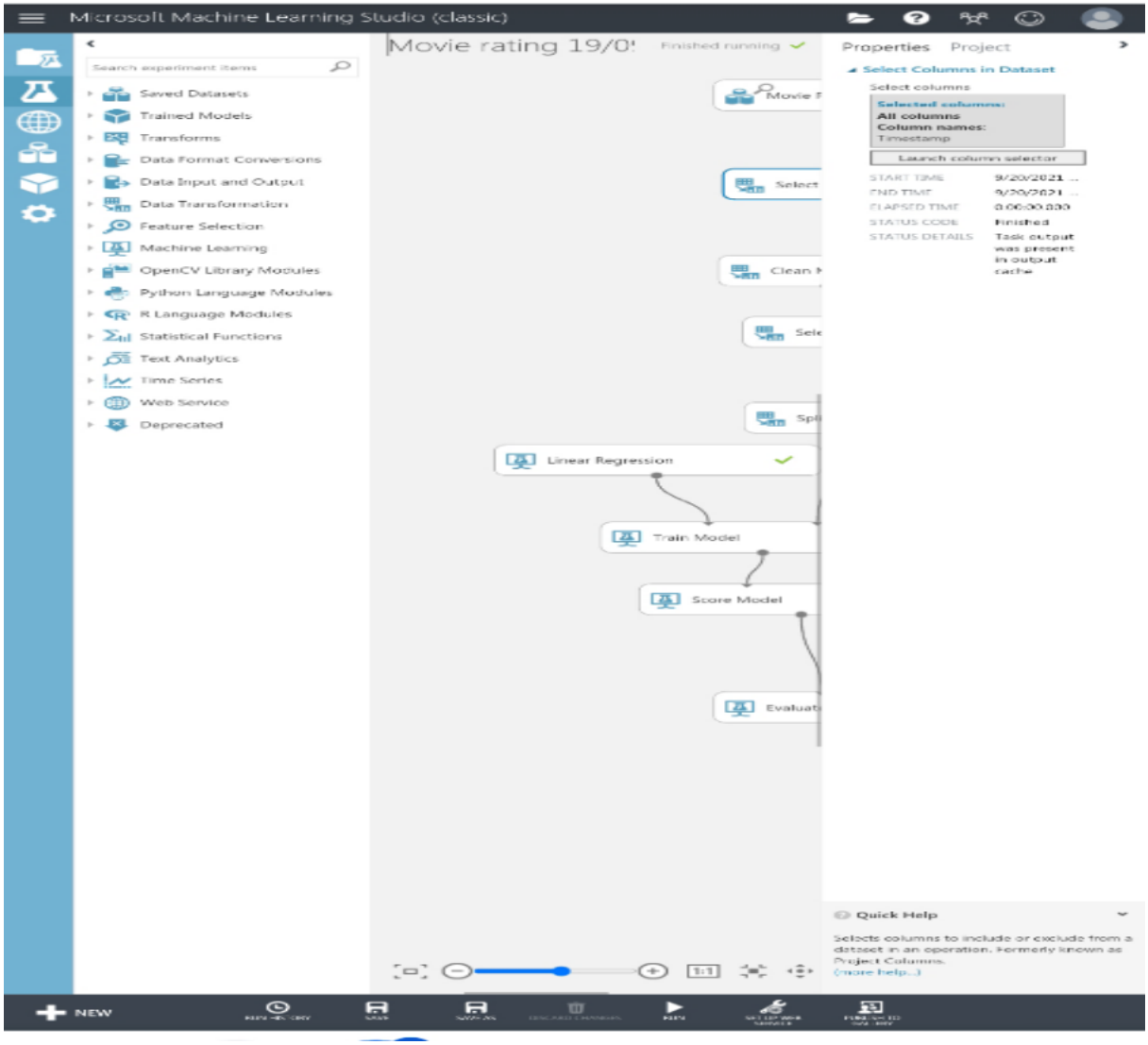
	A	B	C	D
1	UserId	MovieId	Rating	Timestamp
2	1	68646	10	1381620027
3	1	113277	10	1379466669
4	2	454876	8	1394818630
5	2	790636	7	1389963947
6	2	816711	8	1379963769
7	2	1091191	7	1391173869
8	2	1322269	7	1391529691
9	2	1433811	8	1380453043
10	2	1454468	8	1387016442
11	2	1535109	8	1386350135
12	2	1675434	8	1396688981
13	2	1798709	10	1389948338
14	2	2017038	7	1390570895
15	2	2024544	10	1389355949
16	2	2294629	8	1392455710
17	3	1300854	7	1368156300
18	4	1764234	8	1391206288
19	4	1790885	9	1377291091
20	4	2053463	7	1378052353
21	5	385002	10	1363061522
22	5	1220198	10	1367222049
23	5	1462900	10	1363946231
24	5	1512685	10	1364661242
25	5	1631707	10	1367919290
26	5	1986994	1	1364221582
27	5	1999995	10	1367919361
28	6	3294634	6	1391350541
29	7	1272878	10	1379131061
30	8	452623	10	1379973078
31	9	800241	7	1378331028
32	10	2258858	8	1379717483
33	11	103064	10	1369954956
34	12	359950	7	1388507932
35	12	770828	9	1371414466
36	12	1091191	8	1389452836
37	12	1170358	7	1387155754
38	12	1210819	4	1372989121
39	12	1430132	7	1375501484
40	12	1490017	8	1391996428
41	12	1535108	6	1376832284
42	12	1663662	6	1374543862
43	12	1843866	8	1396710603
44	12	2334879	5	1376197537
45	13	1210819	7	1373912552

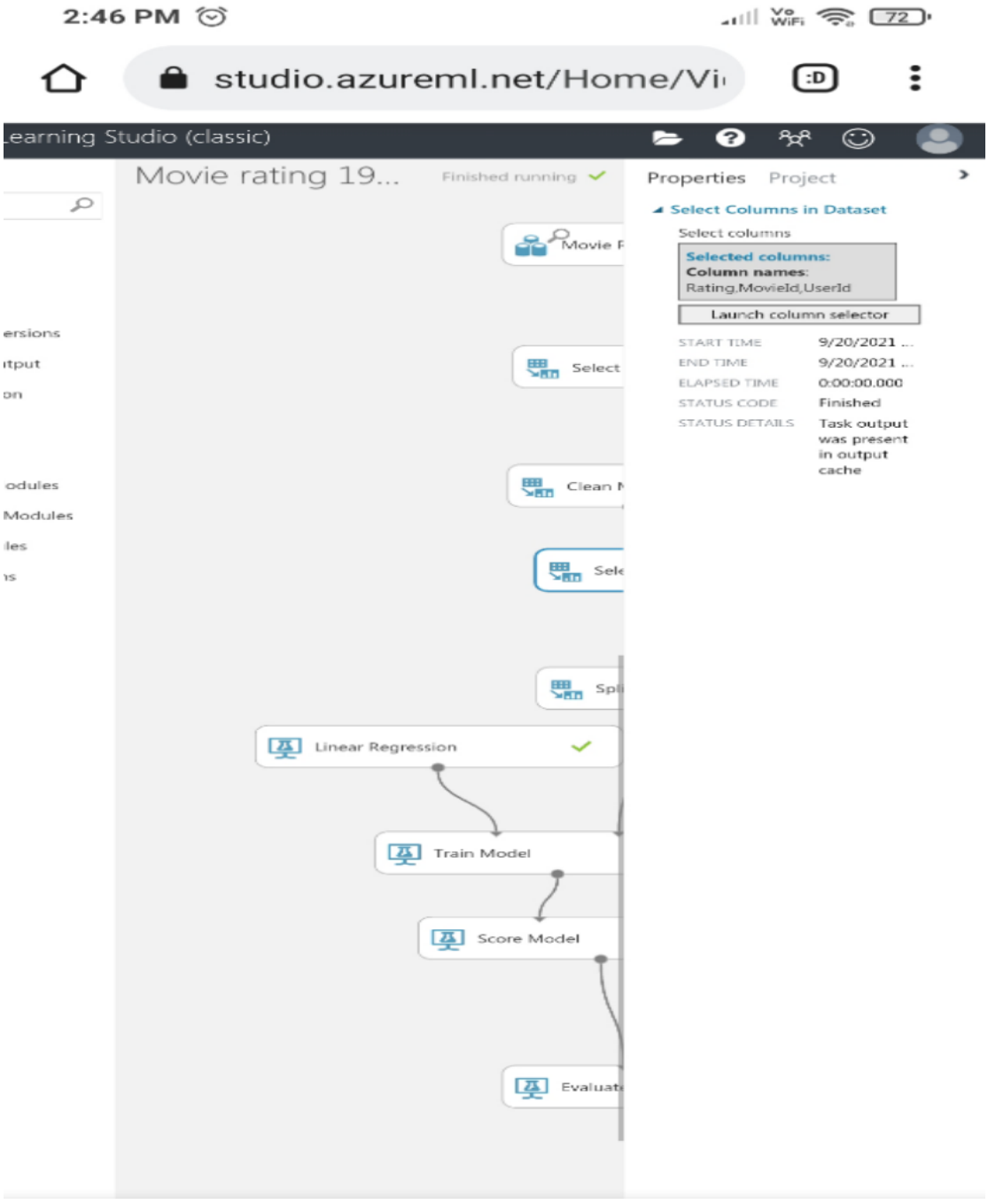
Explore Data

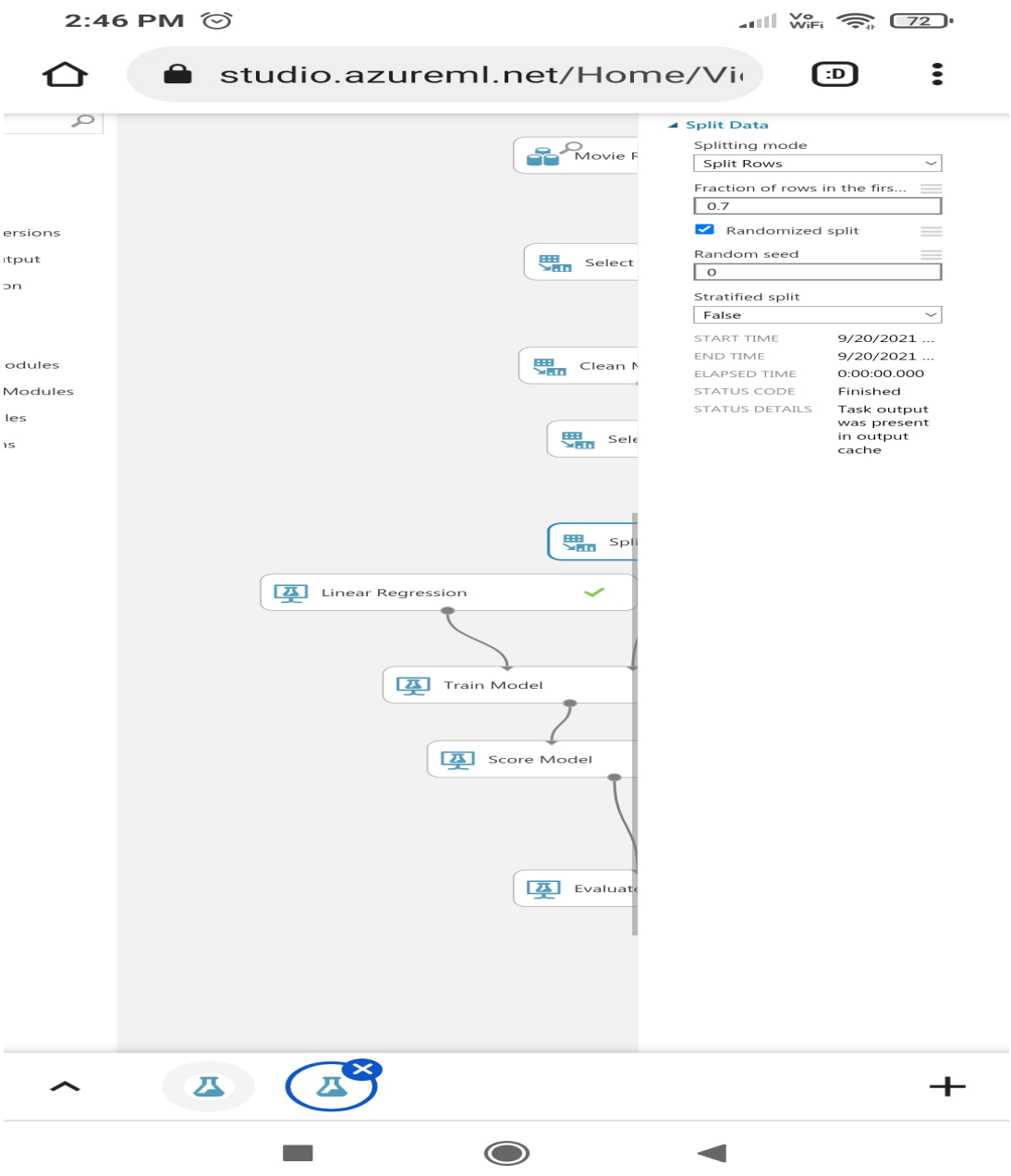
this basically includes data visualization to search for any missing values in the Dataset.

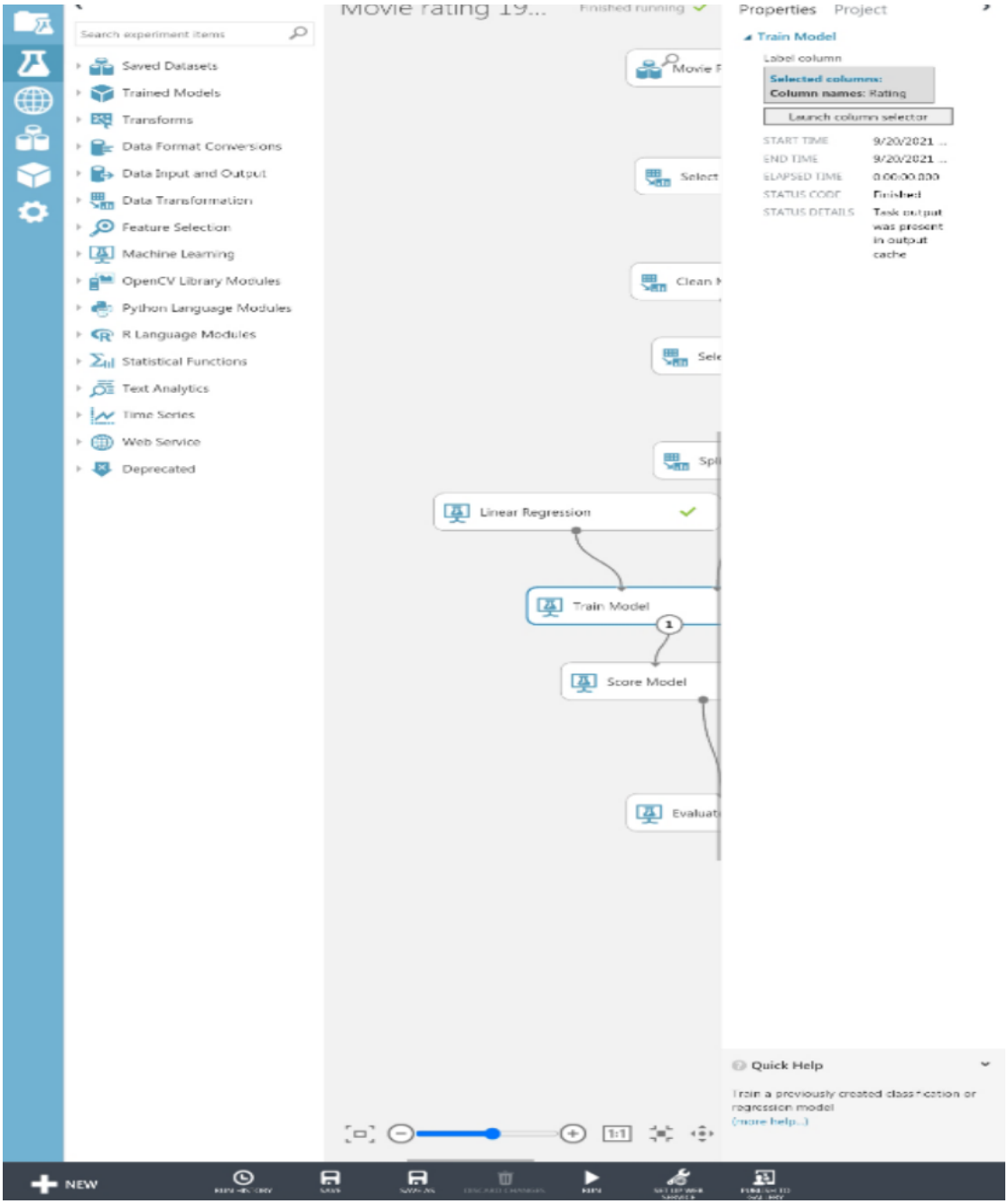
if any missing values are found, then they needs to be cleaned.

selecting the required columns and clean the data using the Clean Missing Value module (Just Drag n' Drop)



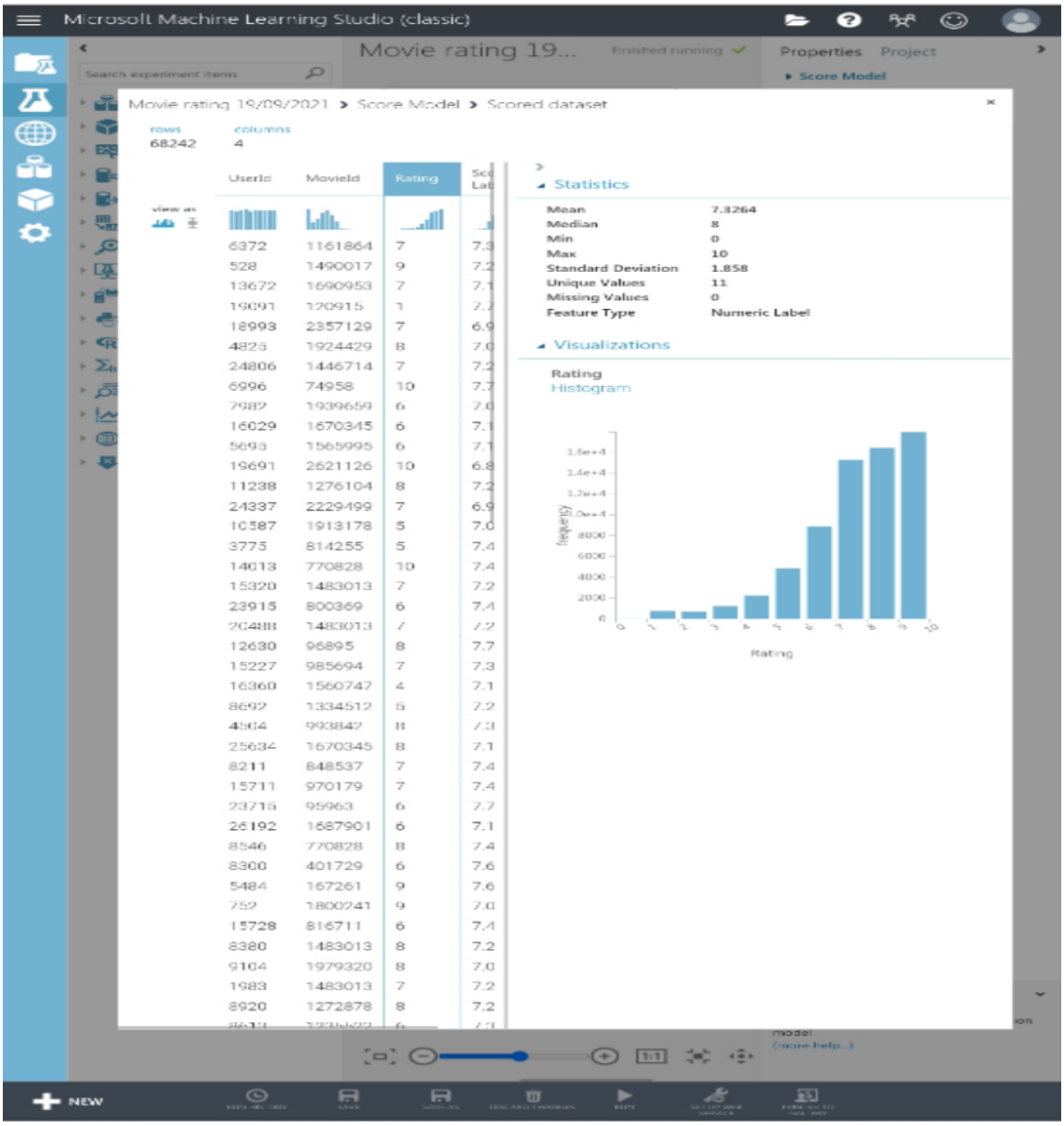
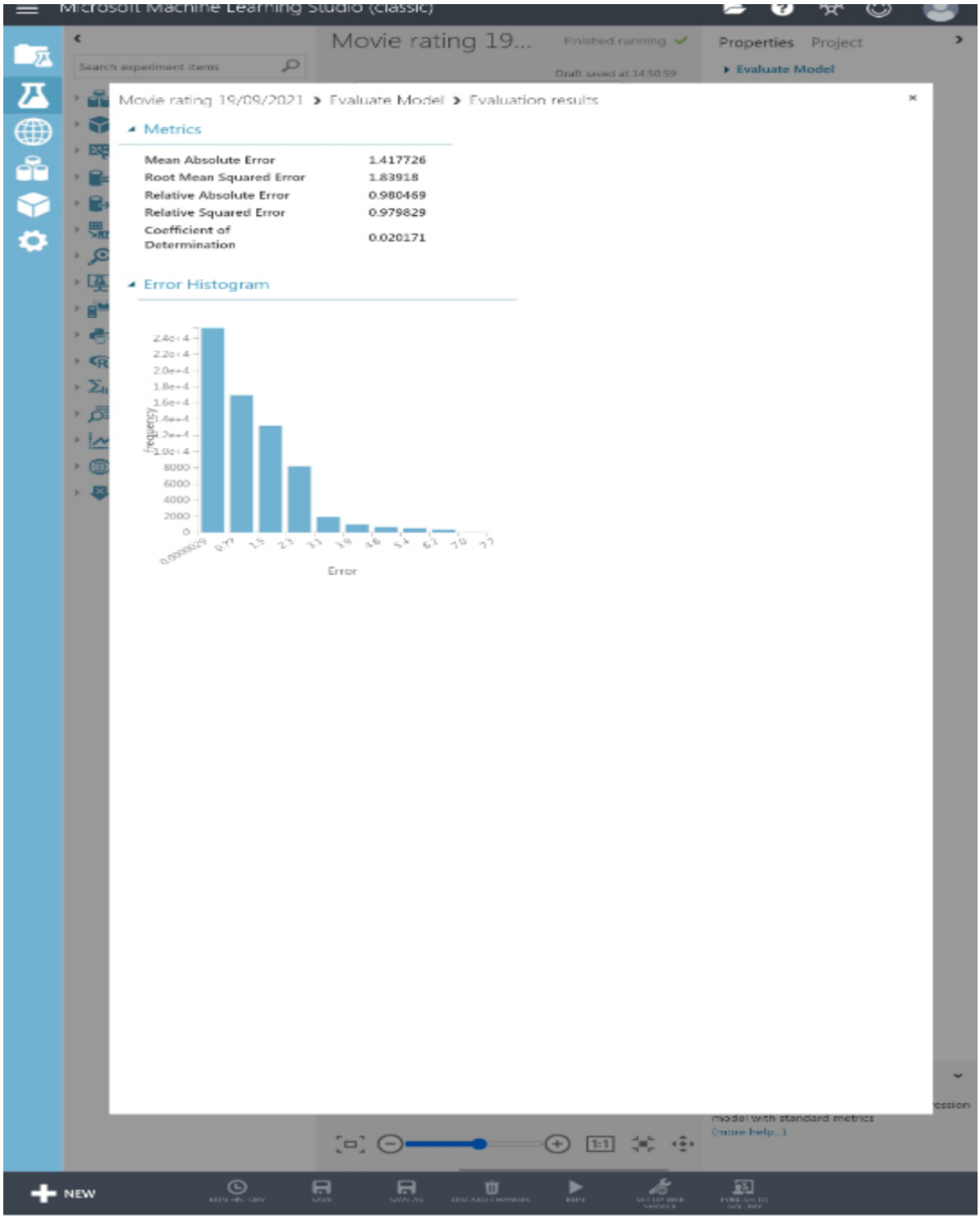

2:46 PM
studio.azureml.net/Home/Vi
Learning Studio (classic)
Movie rating 19...
Finished running
Properties
Project
Select Columns in Dataset
Select columns
Selected columns:
Column names:
Rating,MovieId,UserId
Launch column selector
START TIME
9/20/2021 ...
END TIME
9/20/2021 ...
ELAPSED TIME
0:00:00.000
STATUS CODE
Finished
STATUS DETAILS
Task output was present in output cache
Linear Regression
Train Model
Score Model


2:46 PM
studio.azureml.net/Home/Vi
Movie
Select
Clean
Sele
Spli
Linear Regression
Train Model
Score Model
Evaluat
Split Data
Splitting mode
Split Rows
Fraction of rows in the firs...
0.7
Randomized split
Random seed
0
Stratified split
False
START TIME 9/20/2021 ...
END TIME 9/20/2021 ...
ELAPSED TIME 0:00:00.000
STATUS CODE Finished
STATUS DETAILS Task output was present in output cache


Search experiment items
Saved Datasets
Trained Models
Transforms
Data Format Conversions
Data Input and Output
Data Transformation
Feature Selection
Machine Learning
OpenCV Library Modules
Python Language Modules
R Language Modules
Statistical Functions
Text Analytics
Time Series
Web Service
Deprecated
Movie rating 19...
Finished running
Linear Regression
Train Model
Score Model
Properties
Project
Train Model
Label column
Selected columns:
Column names: Rating
Launch column selector
START TIME 9/20/2021 ...
END TIME 9/20/2021 ...
ELAPSED TIME 0:00:00.000
STATUS CODE Finished
STATUS DETAILS Task output was present in output cache
Quick Help
Train a previously created classification or regression model
(more help...)
NEW

Score Model and Evaluate Model:

After the model is trained, we can use the Score Model and Evaluate Model modules to generate predicted results and evaluate the models



Evaluation Results