

ASSIGNMENT – 2

RISK ANALYSIS OF SPACE SHUTTLE

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Data					
	o_ring_ct Integer	o_ring_failu... Integer	temperature Integer	pressure Integer	launch_id Integer
1	6	0	66	50	1
2	6	1	70	50	2
3	6	0	69	50	3
4	6	0	68	50	4
5	6	0	67	50	5
6	6	0	72	50	6
7	6	0	73	100	7
8	6	0	70	100	8
9	6	1	57	200	9
10	6	1	63	200	10
11	6	1	70	200	11
12	6	0	78	200	12
13	6	0	67	200	13
14	6	2	53	200	14

Details
Help

Edit

LOCATION
Project Linear Regression

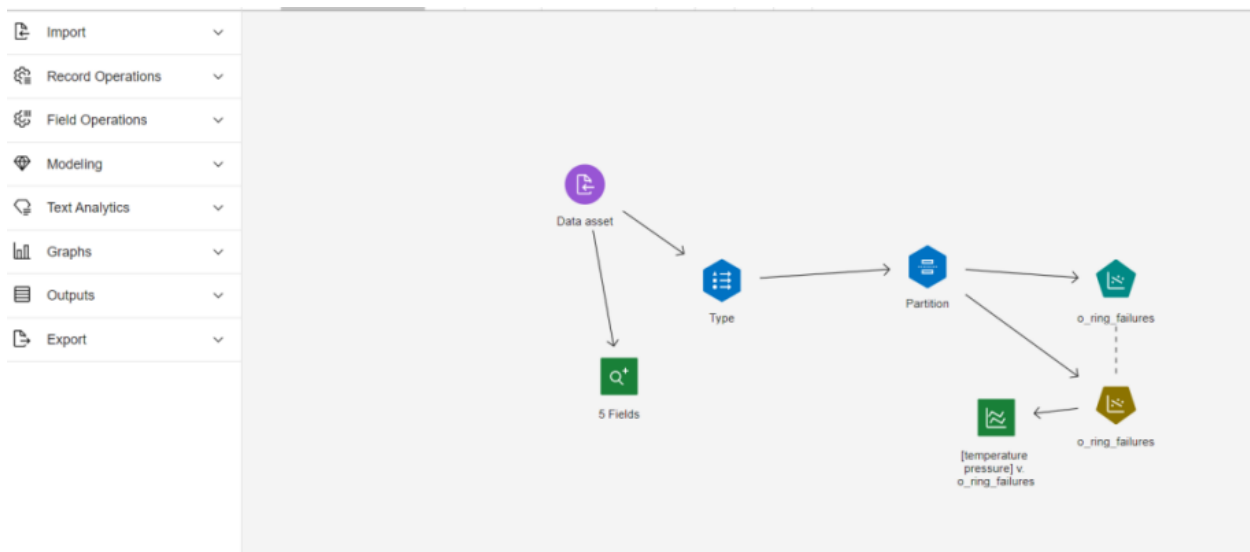
DATA REFINERY FLOW NAME
challengers.csv_flow

Enter a description of the Data Refinery flow

STEPS
1

DATA REFINERY FLOW OUTPUT





Import ▾
Record Operations ▾
Field Operations ▾
Modeling ▾
Text Analytics ▾
Graphs ▾
Outputs ▾
Export ▾

Data asset

Type

Settings

[Read values](#) [Clear values](#)

Find in column Field

<input type="checkbox"/>	Field	Measure		Role	Value mode	Values		
<input type="checkbox"/>	# o_ring_ct	Continuous	▾	None	▾	Instantiated ▾	6, 6	⚙
<input type="checkbox"/>	# o_ring_failures	Continuous	▾	Target	▾	Instantiated ▾	0, 2	⚙
<input type="checkbox"/>	# temperature	Continuous	▾	Input	▾	Instantiated ▾	53, 81	⚙
<input type="checkbox"/>	# pressure	Continuous	▾	Input	▾	Instantiated ▾	50, 200	⚙
<input type="checkbox"/>	# launch_id	Continuous	▾	None	▾	Instantiated ▾	1, 23	⚙

Default mode ⓘ
☒ Read metadata ☐ Pass (do not scan)

[Set unique fields to None](#)

Set categorical fields to None if they exceed this many values ⓘ Set continuous integer field to ordinal if range less than or equal to ⓘ

[Cancel](#) [Save](#)

Projects / Project Linear Regression / Shuttle Launch Modeler

View Model: o_ring_failures

Regression

EVALUATION

Model Summary

ANOVA

Coefficients

MODEL VIEWER

Build Settings

Training Summary

Model Summary ⓘ

	1
R	0.822 [1]
R Square	0.676
Adjusted R Square	0.633
Std. Error of the Estimate	0.368

[1] Predictors: (Constant), [N1], pressuretemperature

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ANOVA ⓘ

	1		
	Regression	Residual	Total
Sum of Squares	4.243	2.034	6.278
df	2.000	15.000	17.000
Mean Square	2.122	0.136	
F	15.645		
Sig.	0.000		

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Build Settings ⓘ

Use partitioned data	true
Calculate predictor importance	true
Method	Enter
Include constant in equation	true
Use weight	false
Mode	Sample

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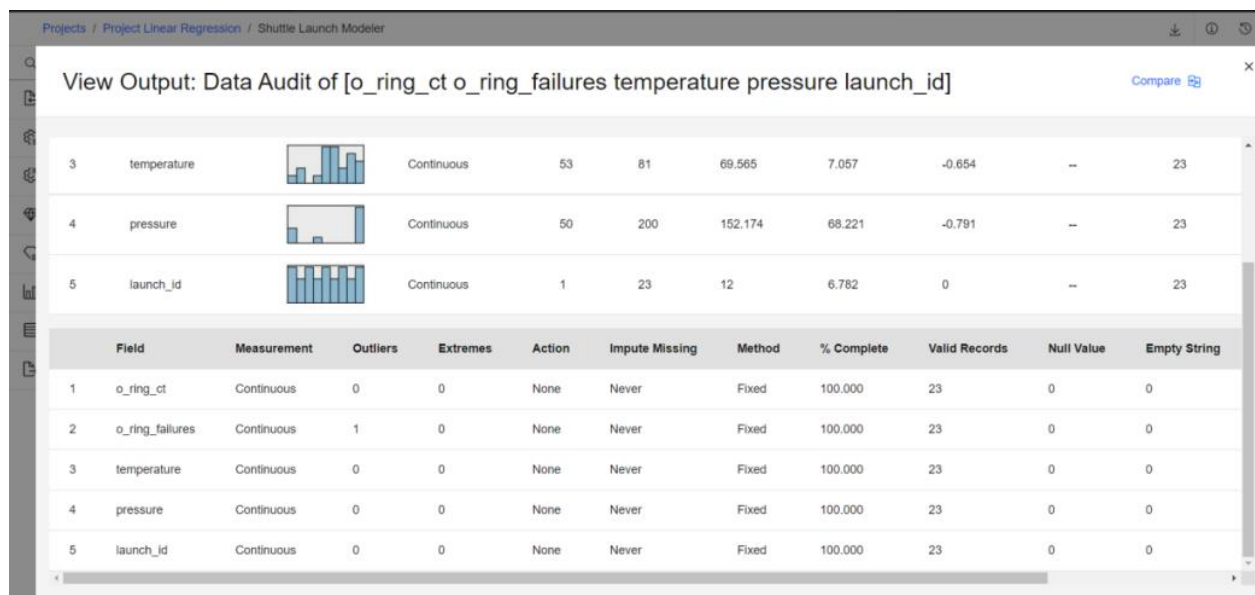
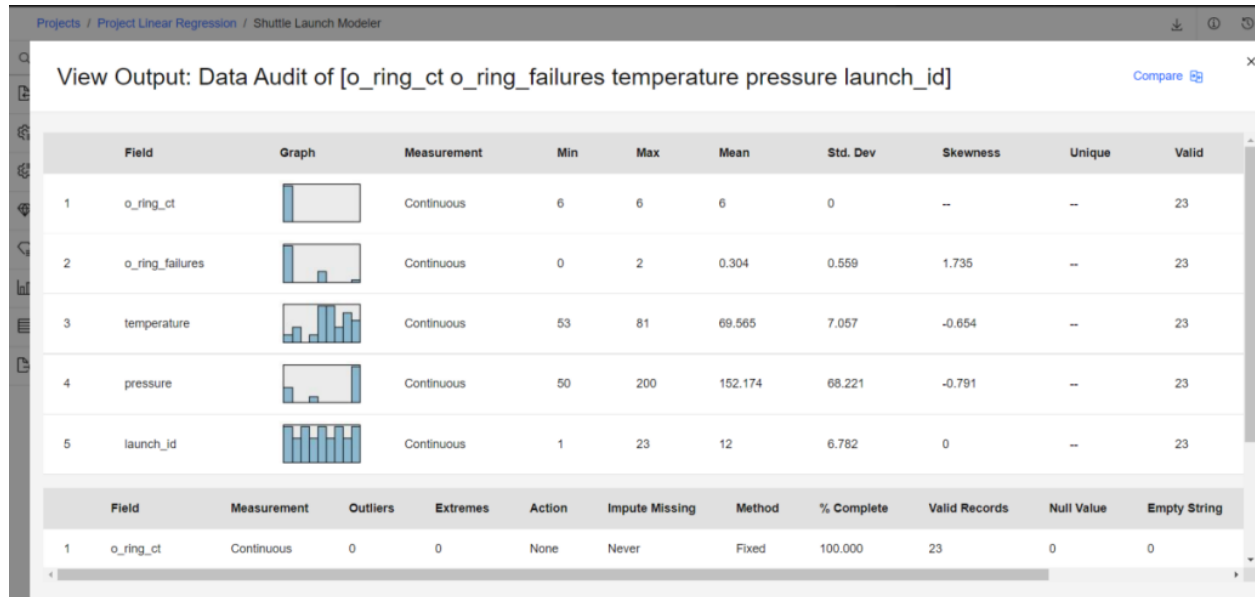
MODEL VIEWER

Build Settings

Training Summary

Training Summary ⓘ

Algorithm	Regression
Model type	Approximation
Date built	Wed Apr 20 06:54:47 UTC 2022
Elapsed time for model build	0 hours, 0 mins, 3 secs



View Output: temperature v. pressure v. \$E-o_ring_failures

