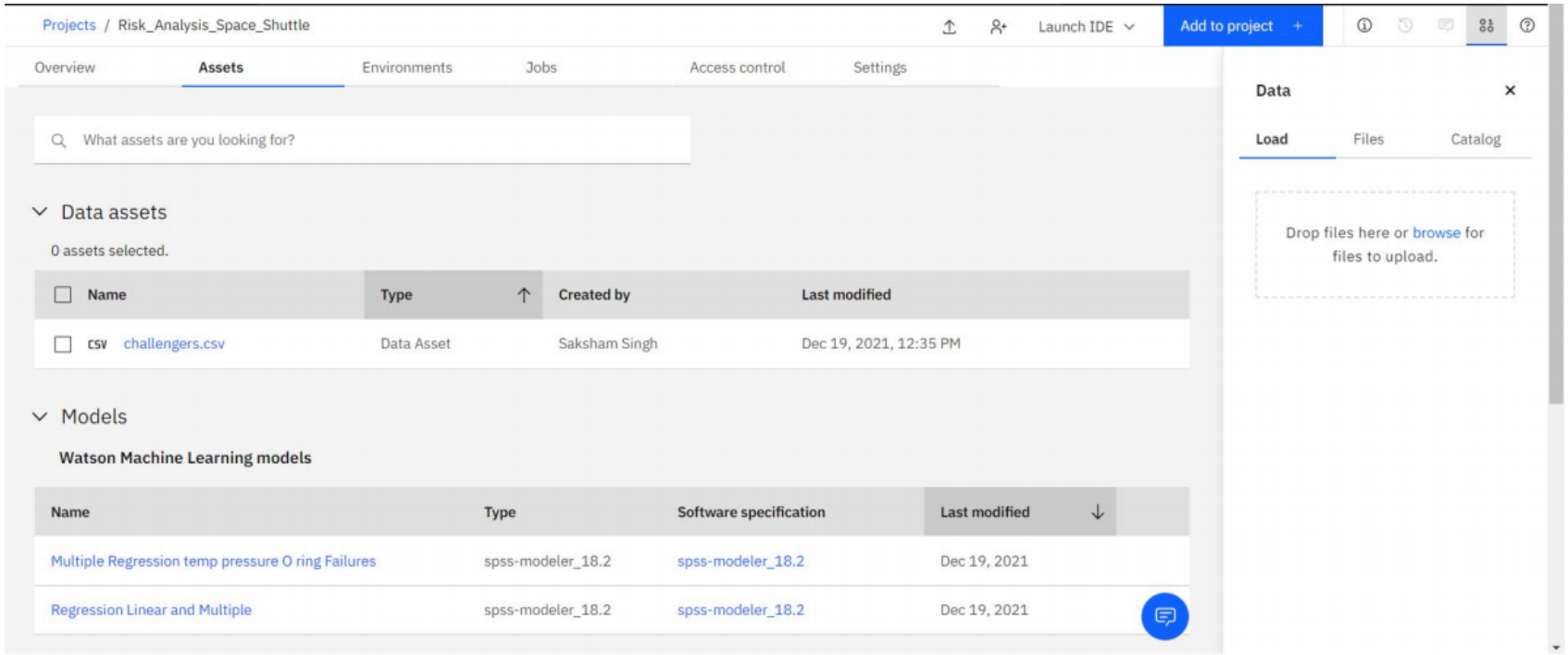
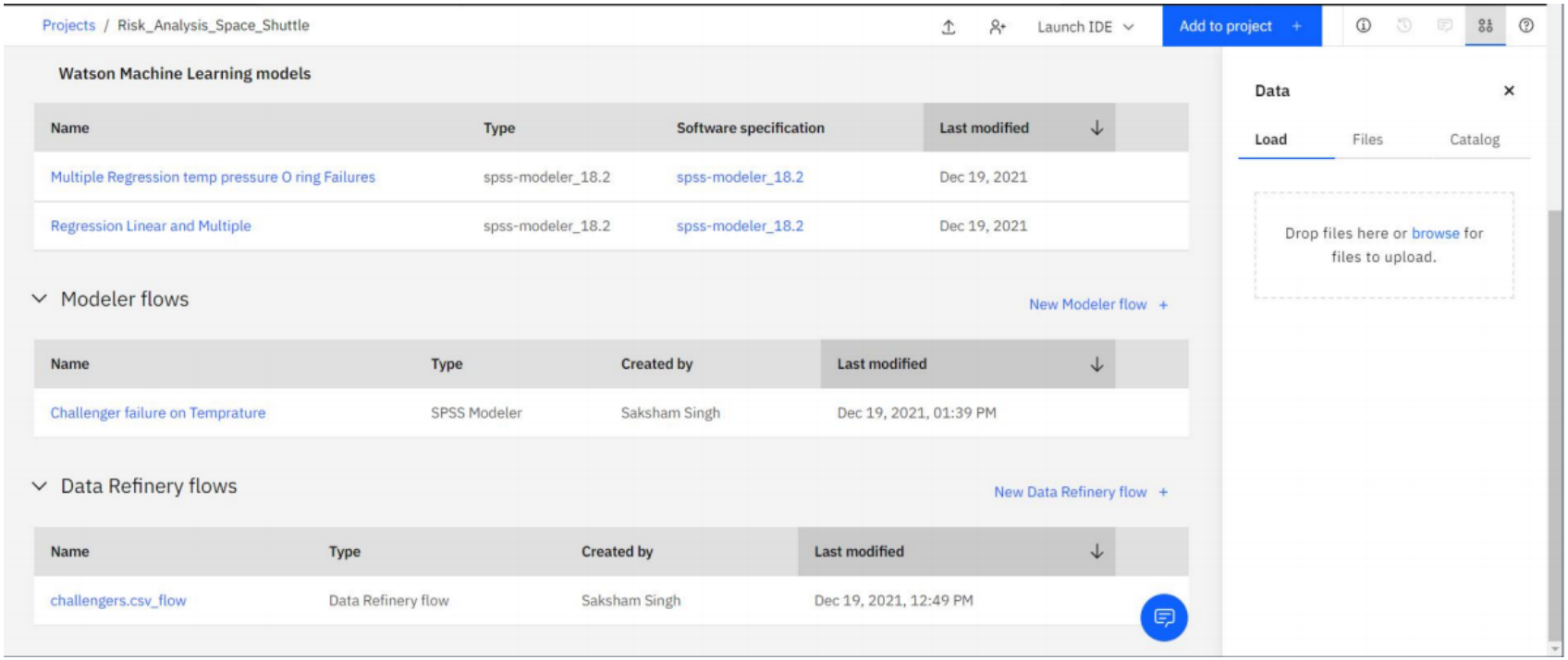
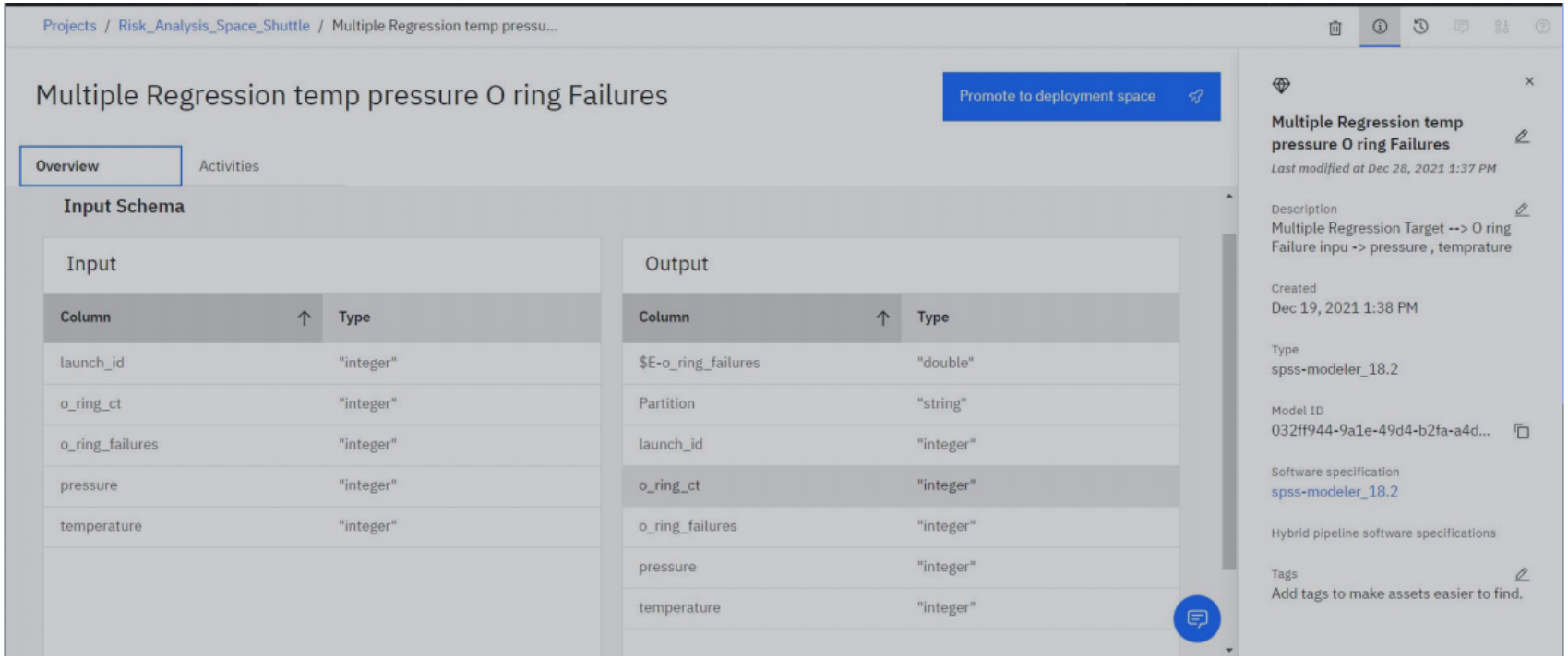
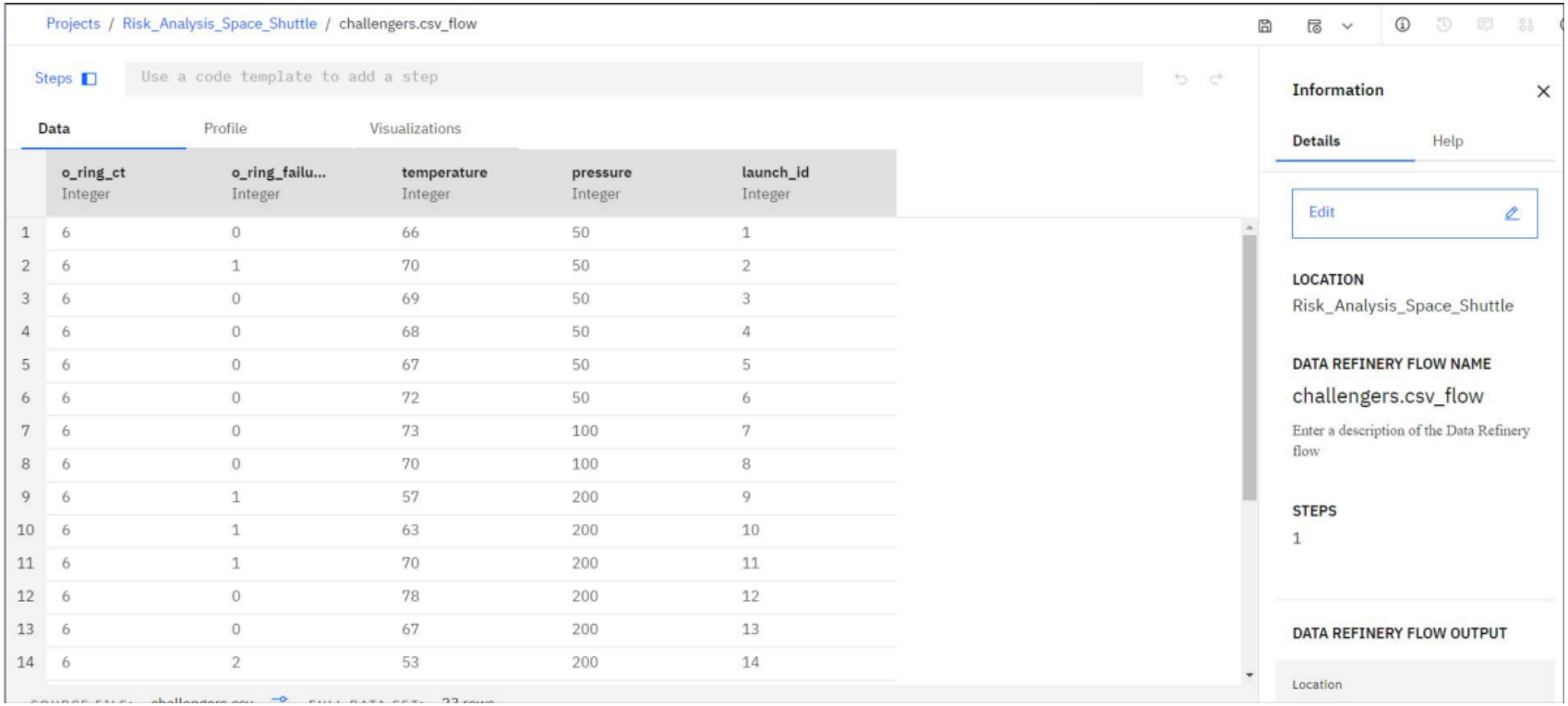
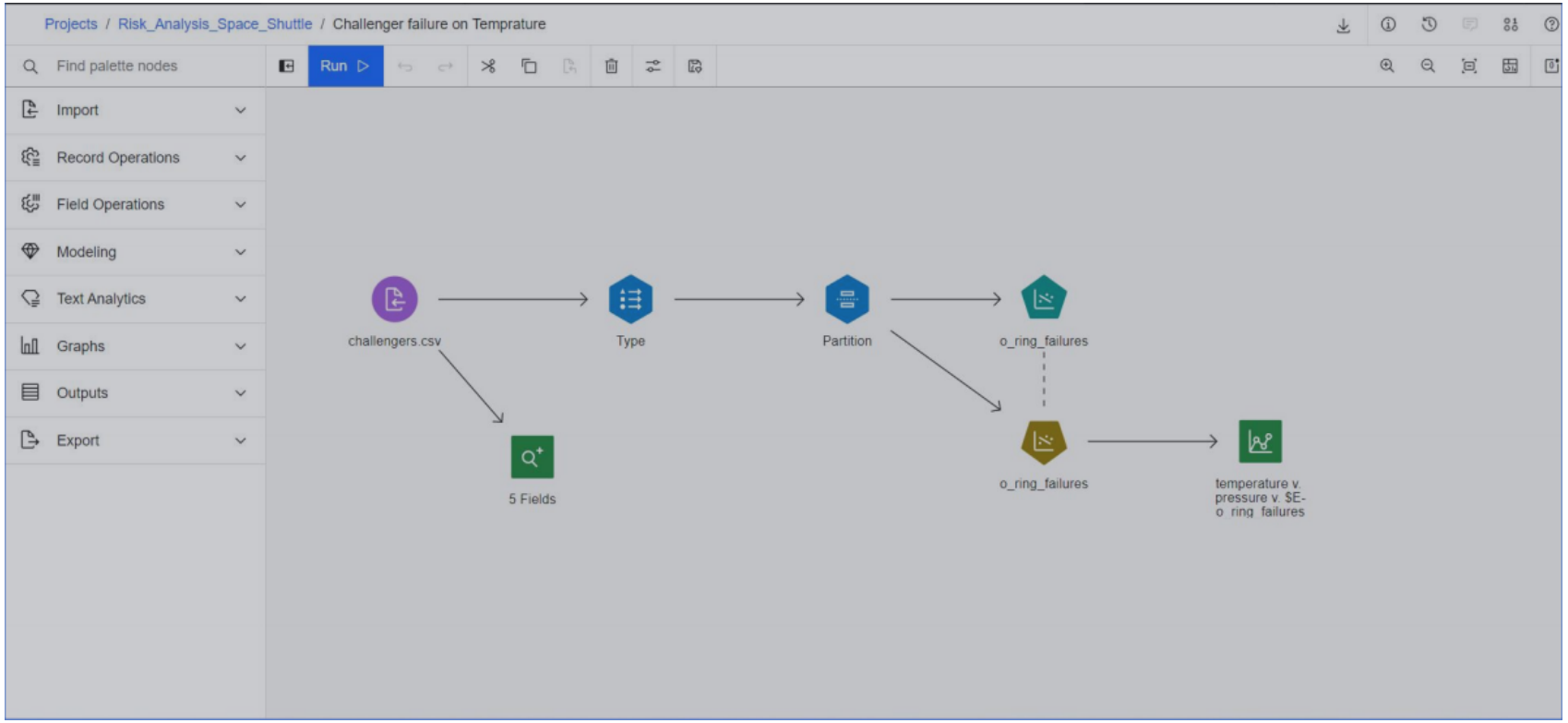

Projects / Risk_Analysis_Space_Shuttle
Launch IDE
Add to project
Overview
Assets
Environments
Jobs
Access control
Settings
What assets are you looking for?
Data assets
0 assets selected.
Name
Type
Created by
Last modified
csv challengers.csv
Data Asset
Saksham Singh
Dec 19, 2021, 12:35 PM
Models
Watson Machine Learning models
Name
Type
Software specification
Last modified
Multiple Regression temp pressure O ring Failures
spss-modeler_18.2
spss-modeler_18.2
Dec 19, 2021
Regression Linear and Multiple
spss-modeler_18.2
spss-modeler_18.2
Dec 19, 2021
Data
Load
Files
Catalog
Drop files here or browse for files to upload.


Projects / Risk_Analysis_Space_Shuttle
Launch IDE
Add to project +
Watson Machine Learning models
Name
Type
Software specification
Last modified
Multiple Regression temp pressure O ring Failures
spss-modeler_18.2
spss-modeler_18.2
Dec 19, 2021
Regression Linear and Multiple
spss-modeler_18.2
spss-modeler_18.2
Dec 19, 2021
Modeler flows
New Modeler flow +
Name
Type
Created by
Last modified
Challenger failure on Temprature
SPSS Modeler
Saksham Singh
Dec 19, 2021, 01:39 PM
Data Refinery flows
New Data Refinery flow +
Name
Type
Created by
Last modified
challengers.csv_flow
Data Refinery flow
Saksham Singh
Dec 19, 2021, 12:49 PM
Data
Load
Files
Catalog
Drop files here or browse for files to upload.


Projects / Risk_Analysis_Space_Shuttle / Multiple Regression temp pressu...
Multiple Regression temp pressure O ring Failures
Promote to deployment space
Overview
Activities
Input Schema
Input
Column
Type
launch_id "integer"
o_ring_ct "integer"
o_ring_failures "integer"
pressure "integer"
temperature "integer"
Output
Column
Type
$E-o_ring_failures "double"
Partition "string"
launch_id "integer"
o_ring_ct "integer"
o_ring_failures "integer"
pressure "integer"
temperature "integer"
Multiple Regression temp pressure O ring Failures
Last modified at Dec 28, 2021 1:37 PM
Description
Multiple Regression Target --> O ring Failure inpu -> pressure , temprature
Created
Dec 19, 2021 1:38 PM
Type
spss-modeler_18.2
Model ID
032ff944-9a1e-49d4-b2fa-a4d...
Software specification
spss-modeler_18.2
Hybrid pipeline software specifications
Tags
Add tags to make assets easier to find.


Projects / Risk_Analysis_Space_Shuttle / challengers.csv_flow
Steps
Use a code template to add a step
Data
Profile
Visualizations
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
Information
Details
Help
Edit
LOCATION
Risk_Analysis_Space_Shuttle
DATA REFINERY FLOW NAME
challengers.csv_flow
Enter a description of the Data Refinery flow
STEPS
1
DATA REFINERY FLOW OUTPUT
Location


Projects / Risk_Analysis_Space_Shuttle / Challenger failure on Temprature
Find palette nodes
Run
Import
Record Operations
Field Operations
Modeling
Text Analytics
Graphs
Outputs
Export
challengers.csv
Type
Partition
o_ring_failures
5 Fields
o_ring_failures
temperature v. pressure v. $E-o_ring_failures

Type

Type

Settings

Default Mode

(•) Read metadata ( ) Pass (do not scan)

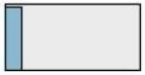
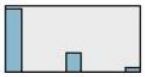
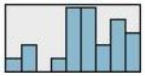
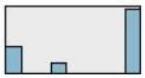
Type Operations

Read Values | Clear All Values

Find in column Field

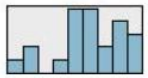
	Field	Measure	Role	Value mode	Values	Check
☐	# o_ring_ct	Continuous	None	Instantiated	6, 6	None
☐	# o_ring_fail	Continuous	Target	Instantiated	0, 2	None
☐	# temperatui	Continuous	Input	Instantiated	53, 81	None
☐	# pressure	Continuous	Input	Instantiated	50, 200	None
☐	# launch_id	Continuous	None	Instantiated	1, 23	None

View Output: 5 Fields

	Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	o_ring_ct		Continuous	6	6	6	0	--	--	23
2	o_ring_failures		Continuous	0	2	0.304	0.559	1.735	--	23
3	temperature		Continuous	53	81	69.565	7.057	-0.654	--	23
4	pressure		Continuous	50	200	152.174	68.221	-0.791	--	23
5	launch_id		Continuous	1	23	12	6.782	0	--	23

	Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Empty String
1	o_ring_ct	Continuous	0	0	None	Never	Fixed	100.000	23	0	0

View Output: 5 Fields

3	temperature		Continuous	53	81	69.565	7.057	-0.654	--	23
4	pressure		Continuous	50	200	152.174	68.221	-0.791	--	23
5	launch_id		Continuous	1	23	12	6.782	0	--	23

	Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Empty String
1	o_ring_ct	Continuous	0	0	None	Never	Fixed	100.000	23	0	0
2	o_ring_failures	Continuous	1	0	None	Never	Fixed	100.000	23	0	0
3	temperature	Continuous	0	0	None	Never	Fixed	100.000	23	0	0
4	pressure	Continuous	0	0	None	Never	Fixed	100.000	23	0	0
5	launch_id	Continuous	0	0	None	Never	Fixed	100.000	23	0	0

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), [%1:, pressuretemperature

View Model: o_ring_failures

Regression

EVALUATION

Model Summary

ANOVA

Coefficients

MODEL VIEWER

Build Settings

Training Summary

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		

View Model: o_ring_failures

Regression

EVALUATION

- Model Summary
- ANOVA
- **Coefficients**

MODEL VIEWER

- Build Settings
- Training Summary

Coefficients

		1		
		(Constant)	**temperature**	**pressure**
Unstandardized Coefficients	B	4.181	-0.060	0.003
	Std. Error	0.832	0.012	0.001
Standardized Coefficients	Beta		-0.763	0.298
t		5.025	-5.194	2.027
Sig.		0.000	0.000	0.061
Fraction Missing Info.				

View Model: o_ring_failures

Regression

EVALUATION

- Model Summary
- ANOVA
- Coefficients

MODEL VIEWER

- **Build Settings**
- Training Summary

Build Settings

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

View Model: o_ring_failures

Regression

EVALUATION

Model Summary

ANOVA

Coefficients

MODEL VIEWER

Build Settings

Training Summary

Training Summary ⓘ

Algorithm	Regression
Model type	Approximation
Date built	Tue Dec 28 09:54:29 UTC 2021
Elapsed time for model build	0 hours, 0 mins, 3 secs

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