

# DATA ANALYTICS

## ASSIGNMENT – 2

NAME: ESWAR S S

REG NO: 19BEE0133

CAMPUS: VIT VELLORE

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Projects / Project Linear Regression / challengers.csv\_flow

Steps

Use a code template to add a step

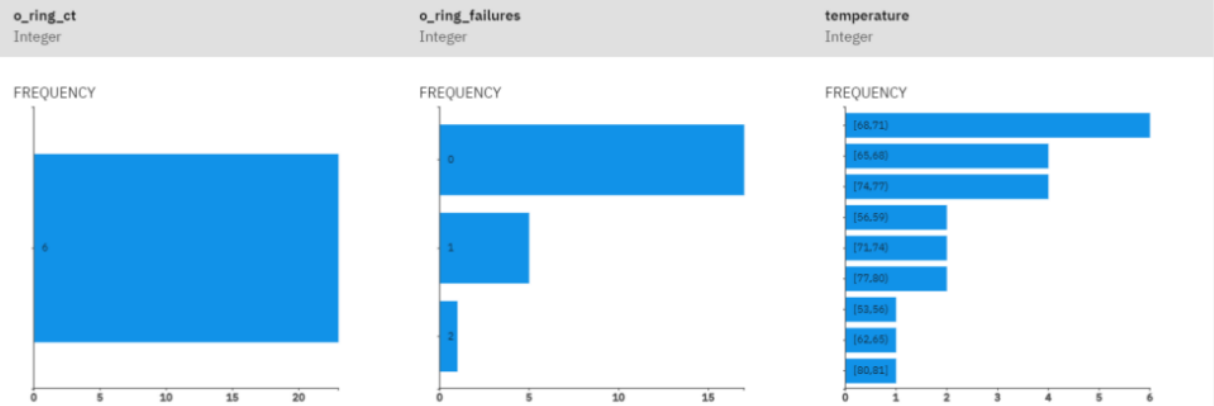
	Data	Profile	Visualizations		
	o_ring_ct Integer	o_ring_failu... Integer	temperature Integer	pressure Integer	launch_id Integer
1	6	0	66	50	1
2	6	1	70	50	2
3	6	0	69	50	3
4	6	0	68	50	4
5	6	0	67	50	5
6	6	0	72	50	6
7	6	0	73	100	7
8	6	0	70	100	8
9	6	1	57	200	9
10	6	1	63	200	10
11	6	1	70	200	11
12	6	0	78	200	12
13	6	0	67	200	13
14	6	2	53	200	14
15	6	0	68	200	15

SOURCE FILE: challengers.csv FULL DATA SET: 23 rows

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Steps  Use a code template to add a step

## Visualizations

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Run selection

Import

Record Operations

Field Operations

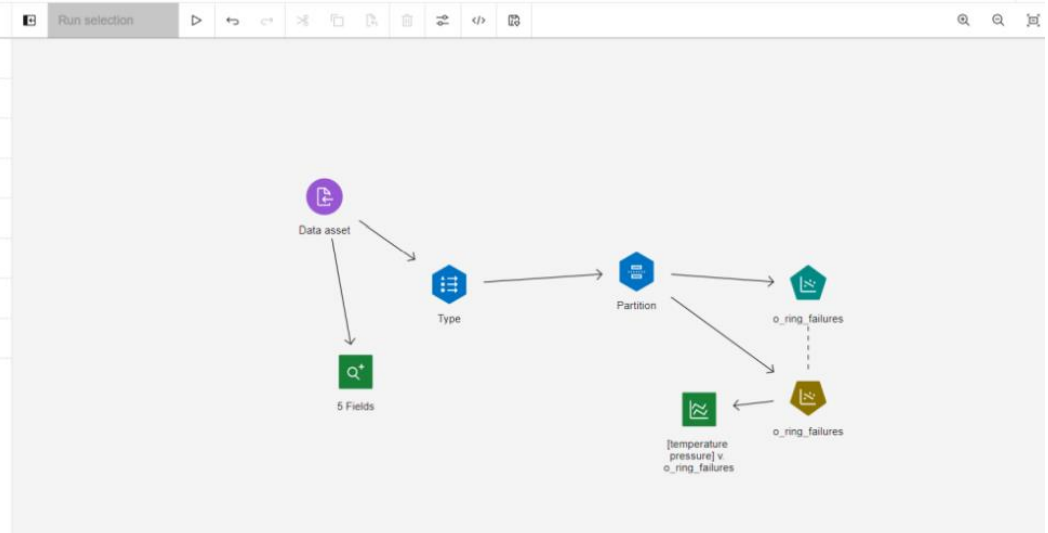
Modeling

Text Analytics

Graphs

Outputs

Export



Projects / Project Linear Regression / Shuttle Launch Modeler

Find palette nodes

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

Type

Settings

Read values Clear values

Find in column Field

Field	Measure	Role	Value mode	Values
# o_ring_ct	Continuous	None	Instantiated	6, 6
# o_ring_failures	Continuous	Target	Instantiated	0, 2
# temperature	Continuous	Input	Instantiated	53, 81
# pressure	Continuous	Input	Instantiated	50, 200
# 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

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## 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

	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

		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.				

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View Model: o\_ring\_failures

Regression

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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

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View Model: o\_ring\_failures

Regression

EVALUATION

Model Summary

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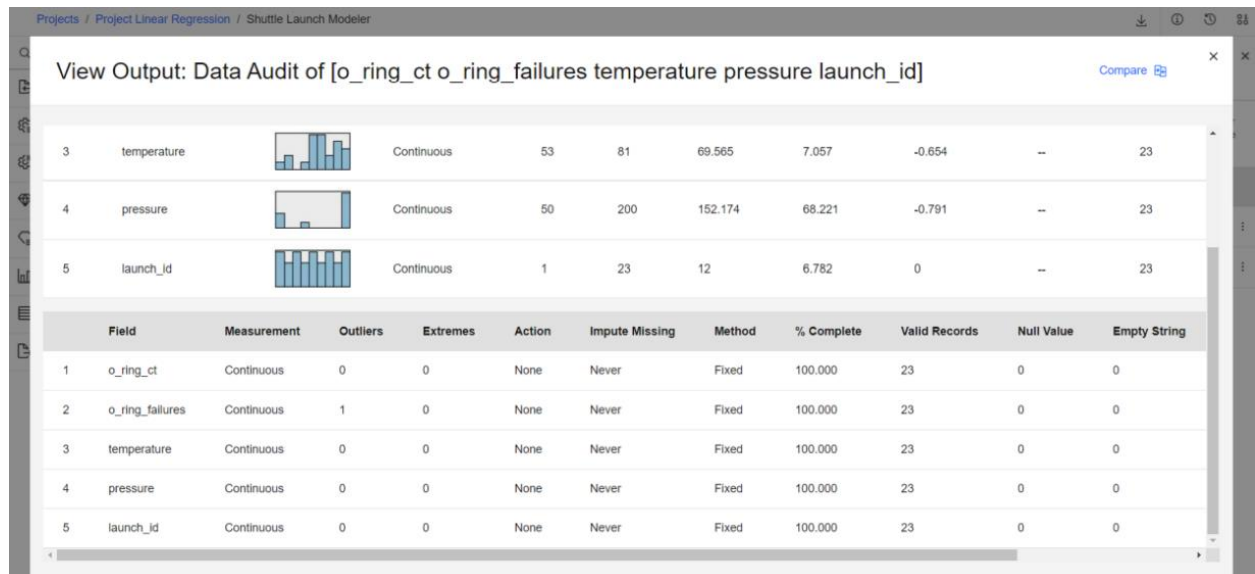
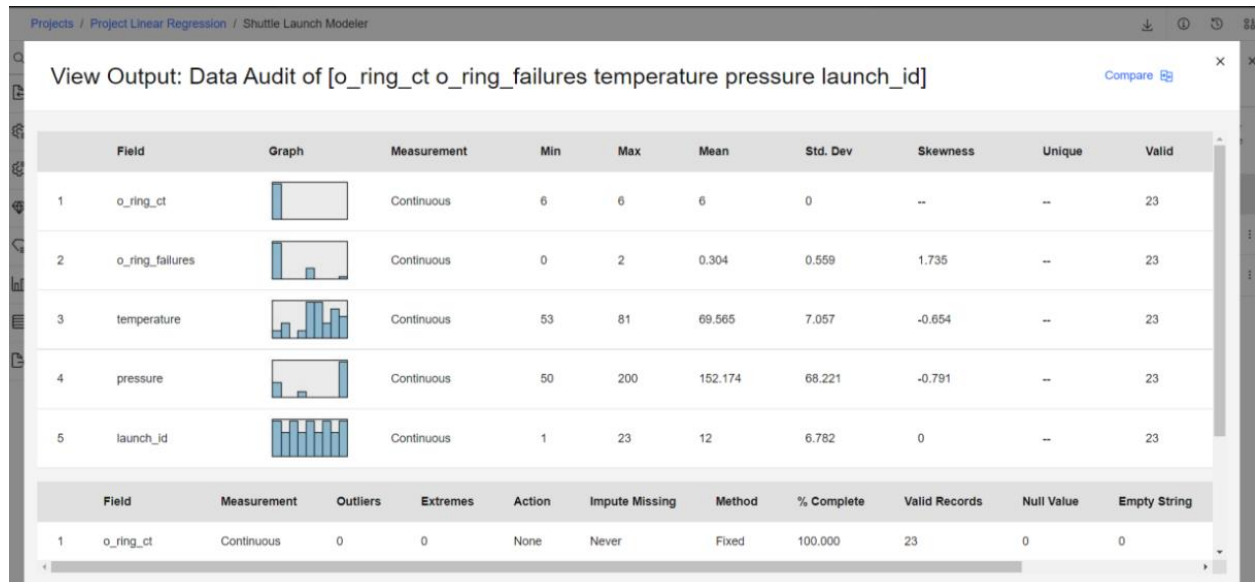
MODEL VIEWER

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

