



## DATA ANALYTICS




### Assignment-2

**NAME:** Dhinesh.B

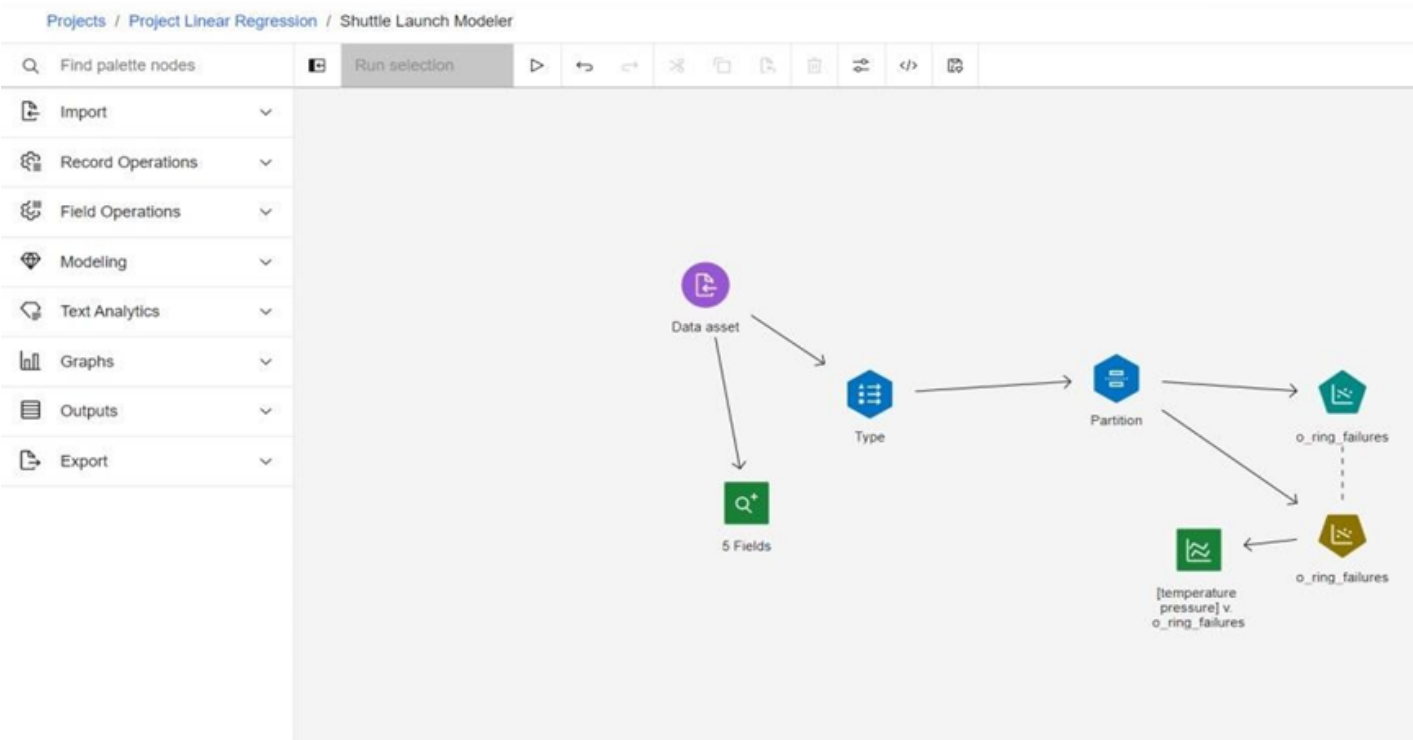
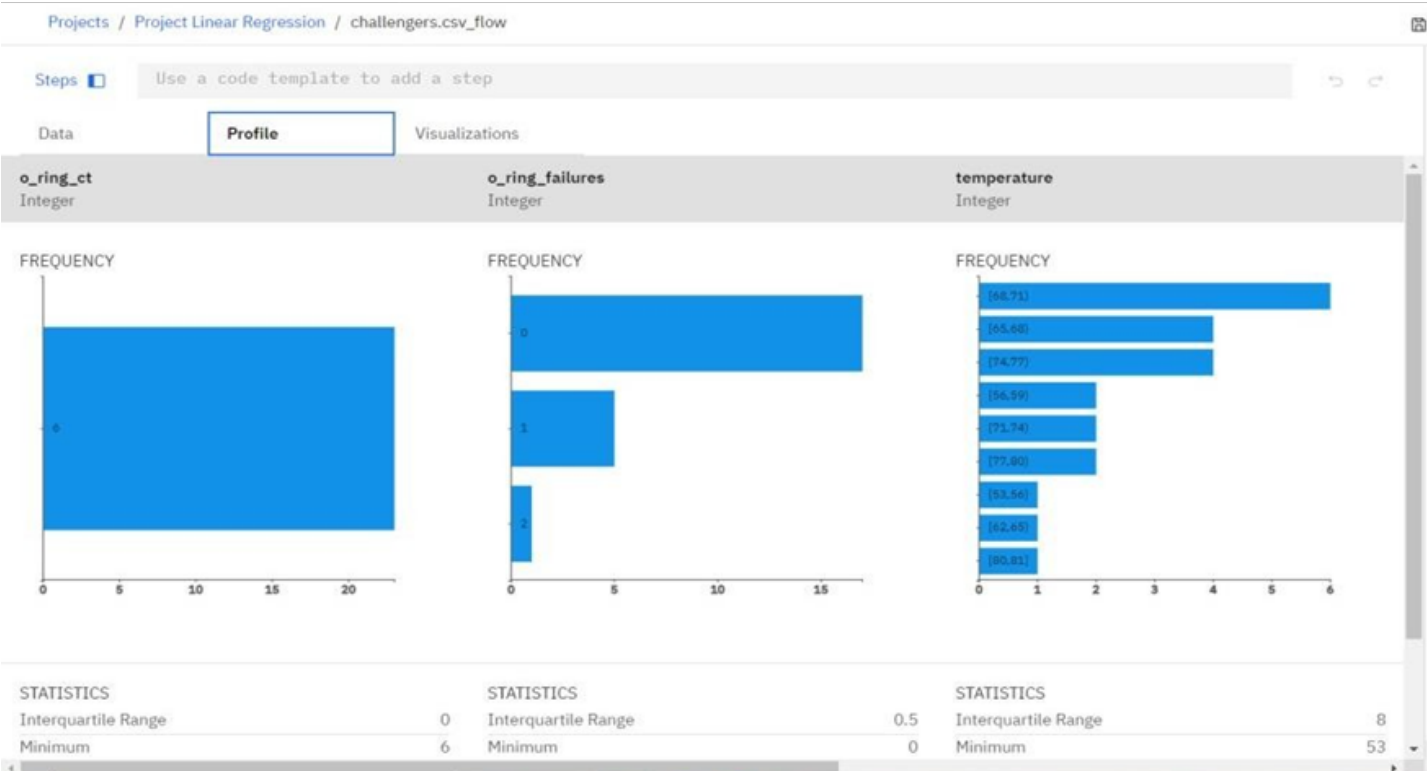
**REG NO:** 19BEC0684

**CAMPUS:** Vellore

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



Projects / Project Linear Regression / Shuttle Launch Modeler

Find palette nodes

Import

Record Operations

Field Operations

Modeling

Text Analytics

Graphs

Outputs

Export

Type

Settings

Read valuesClear 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 valuesSet continuous integer field to ordinal if range less than or equal to

CancelSave

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), [%1-, pressuretemperature

## View Model: o\_ring\_failures

Regression

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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		

## View Model: o\_ring\_failures

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## 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

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**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

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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: Data Audit of [o\_ring\_ct o\_ring\_failures temperature pressure launch\_id]

Compare

	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: Data Audit of [o\_ring\_ct o\_ring\_failures temperature pressure launch\_id]

Compare

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

