

Q What assets are you looking for?

Data assets

0 assets selected.

Drop files here or [browse for files](#) to upload.

<input type="checkbox"/>	Name	Type	created by	Last modified
<input type="checkbox"/>	est challengers.csv	Data Asset	Vishal Yadav	April 19, 2022, 12:35 PM

Models

Watson Machine Learning models

Name	Type	Software specification	Last modified	⌵
Multiple Regression temp pressure 0 ring Failures	spss-modeler 18.2	spss— modeler 18.2	April 19,2022	
Regression Linear and Multiple	spss—modeler 18.2	spss— modeler 18.2	April 19,2022	



Projects / Risk Analysis Space Shuttle

,-,+ Launch IDE

Add to project



Watson Machine Learning models

Data



Name

Type

Software specification

Last modified



Load

Files

Catalog

Multiple Regression temp pressure 0 ring Failures

spss-modeler_18.2

spss-modeler_18.2

April 19, 2022

Regression Linear and Multiple

spss-modeler 18.2

spss-nlodeler 18.2

Dec 19, 2022

Drop files here or [browse](#) for files to upload.

Modeler flows

New Modeler flow +

Name

Type

Created by

Last modified



Challenger failure on Temprature

SPSS Modeler

Vishal Yadav

April 19, 2022, 01:39 PM

Data Refinery flows

New Data Refinery flow +

Name

Type

Created by

Last modified



challengers.csv_flow

DataRefineryflow

Vishal yadav

April 19, 2022, 12:49 PM



Assignment done by- Vishal Yadav(19BCE10098)

Multiple Regression temp pressure O ring Failures

Promote to deployment space

Overview

Activities

Input Schema

In put

Column	↑	Type
launch id		"integer"
a ring ct		"integer"
a ring failures		"integer"
pressure		"integer"
temperature		"integer"

Output

Column	↑	Type
\$E-o_ring failures		"double"
Partition		"string"
launch id		"integer"
o_ring_ct		'integer'
a ring failures		"integer"
pressure		"integer"
temperature		"integer"



Multiple Regression temp pressure O ring Failures
Lost modified at Dec 28, 202d 1:37 PM

Description
multiple Regression Target --> 0 ring Failure inpu -> pressure , temprature

Created
Dec 19, 20211:38 PM

Type
spss-modeler_18.2

Model TD
032ff944-9a1e-49d4-b2fa-a4d... +[g

Software specification
spss-modeler 18.2

Hybrid pipeline software specifications

Tags
Addtagstomake assets easier tofind.



Information 

[Details](#)
[Help](#)

DATA REFINERY FLOW NAME

Enter a description of the Data Refinery

1

Location

Q Find palette nodes

@+- Import

Record Operations v

Field Operations

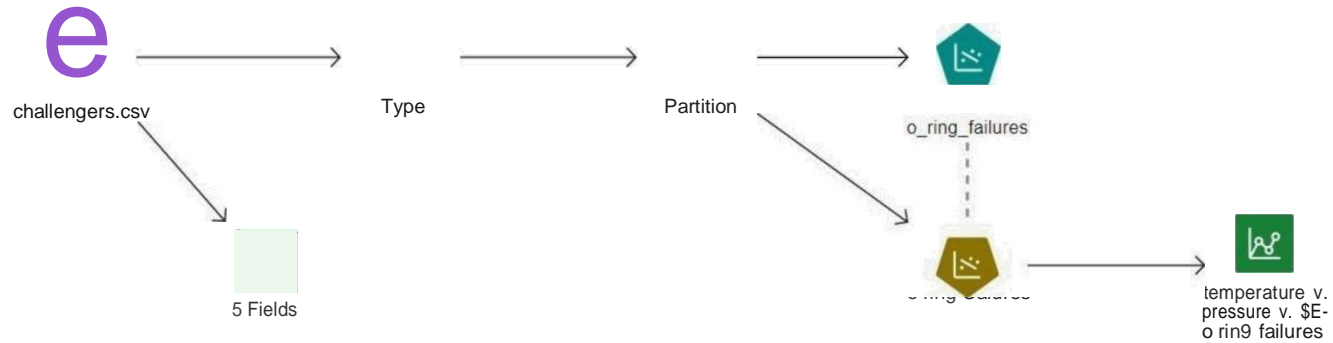
@ Modeling v

Text Analytics v

|g| Graphs

W Outputs

@+- Export v



Type

Settings

Default Ivnode

Read metadata

Pass (do not scan)

Type Operations

v

Read Values






Clear All Values

Q Find in column Field

<input type="checkbox"/>	Field	Measure		Role		Value mode	Values	Check
<input type="checkbox"/>	t o ring ct	Continuous	v	None		Instantiated v	6, 6	None v @
<input type="checkbox"/>	@ o ring fail	Continuous	v	Target	v	Instantiated v	0, 2	None v ⚙
<input type="checkbox"/>	@ temperaturui	Continuous	v	Input	v	Instantiated v	53, 81	None v ⚙
<input type="checkbox"/>	@ pressure	Continuous	v	Input	v	Instantiated v	50, 200	None v ⚙
<input type="checkbox"/>	@ launch id	Continuous	v	None	v	Instantiated v	1, 23	None v ⚙

View Output: S 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		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	Goniinuous	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	Goniinuous	0	0	None	Never	Fixed	100.000	23	0	0
4	pressure	Gone in uous	0	0	None	Never	Fixed	100.000	23	0	0
5	launch id	Goniinuous	0	0	None	Never	Fixed	100.000	23	0	0

View Model: o ring failures

Regression

Model Summary O

EVALUATION

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

ANOVA

Coefficients

Model Power

Build Settings

Training Source

Predictors: (Constant), [1], pressure, temperature

View Model: o ring failures

Regression	ANOVA O			
EVALUATION				
Model Summary		1		
ANOVA		Regression	Residual	Total
Coefficients				
	Shun of Squares	4.243	2.034	6.278
MODEL\JI IR				
	df	2.000	15.000	17.000
Build Settines				
TialfiigSulmi	Mean Square	2.122	0.136	
	F	15.645		
	Sig.	0.000		

View Model: o ring failures

Regression

Coefficients O

EVALUATION

KOdCI Suinniary

ANOVA

Coefficients

N4ODEL AH\OR

Build Settings

Traiiinp Simunary

just CoefBcieate

Standardized Coefficients

t

Sig.

Fraction Missing Info.

1

(Constant)

temperature

pressure

B

4.181

-0.060

0.003

Std. Rrror

0.83

0.012

0.001

Beta

-0.763

0.298

5.025

-1.194

2.027

0.000

0.000

0.061

View Model: o ring failures

Regression

Build Settings O

EVALUATION

Model Summary

Use partitioned data true

ANOVA

Calculate predictor importance true

Coefficients

MODEL VIEWER

Method Eiiier

Build Settings

Include constant in equation true

Training Summary

Use weight false

Mode Simple

View Model: o ring failures

Regression Training Summary O

E\ILUATIOh

Model Summary

OVA

Coe&cients

MODEL VIEWER

BuJdS/dngs

igc/Buo		Regression
Model type		Approximation
Date built		Tire Dec 28 09:54:29 UTC 2021
Elapsed time for model build		0 hours. 0 niina. 3 seca

View Output: temperature v. pressure v. \$E-o ring failures

