

## SmartInternzzz

### Assignment – 02

#### Regression Model

#### Challenger Dataset

#### Uploading the Dataset

#### Data Refinery

Projects / Challenger / challengers.csv / Refine data

Steps (1)

Data Source: challengers.csv

1. Convert column type  
Automatically converted one or more columns to inferred data types. Strings that are converted to decimal use a dot (.) for the decimal symbol.  
Auto-generated

New step

Use a code template to add a step

Data

	o_ring_ct Integer	o_ring_fallu... 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

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

Information

Details Help

Edit

LOCATION  
Challenger

DATA REFINERY FLOW NAME  
challengers.csv\_flow  
Enter a description of the Data Refinery flow

STEPS  
1

DATA REFINERY FLOW OUTPUT

40°C Sunny 16:32 29-04-2022

Name: Kadiyala Meghanath  
Campus: VIT Bhopal

Registration Number: 19MIM10097

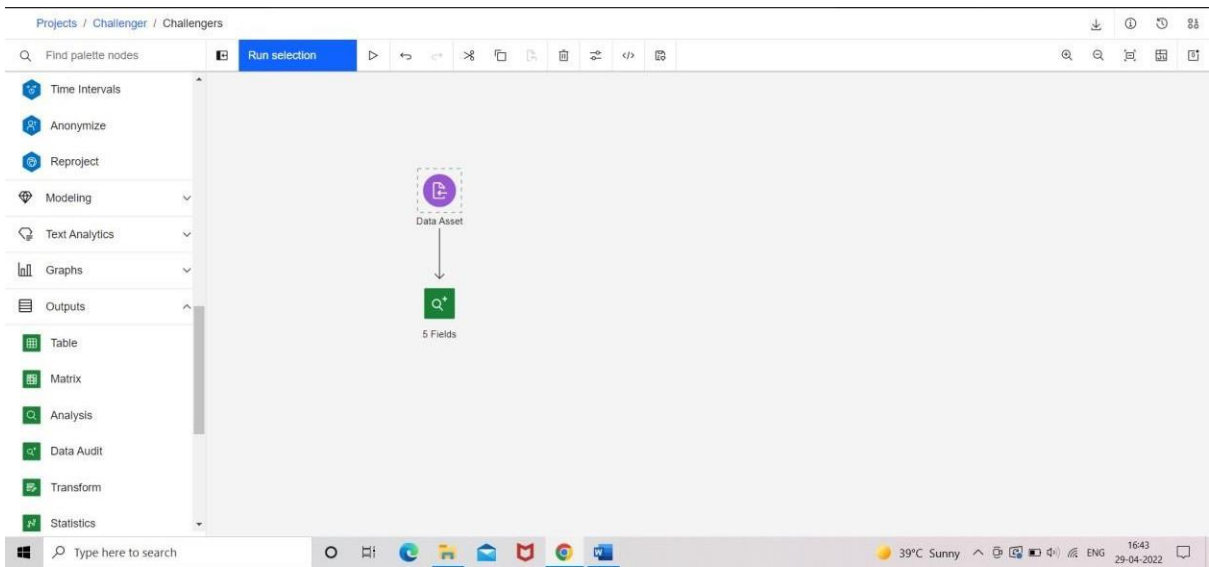
The screenshot shows the 'Assets' tab of a project management interface. The top navigation bar includes 'Overview', 'Assets', 'Jobs', and 'Manage'. The 'Assets' tab is active, displaying a search bar and a list of assets. On the left, under 'Asset types', 'Data' and 'Flows' are listed, with 'Flows' selected. The main area shows a table of flows with columns 'Name' and 'Last modified'. A flow named 'challengers.csv\_flow' is listed, with a sub-entry 'Data Refinery flow'. The 'Last modified' column shows '2 minutes ago' by 'Shashwat Karn (You)'. On the right, a 'Data in this project' panel shows a drop zone for uploading files. The bottom status bar indicates '40°C Sunny' and the date '29-04-2022'.

Name	Last modified
challengers.csv_flow Data Refinery flow	2 minutes ago Shashwat Karn (You)

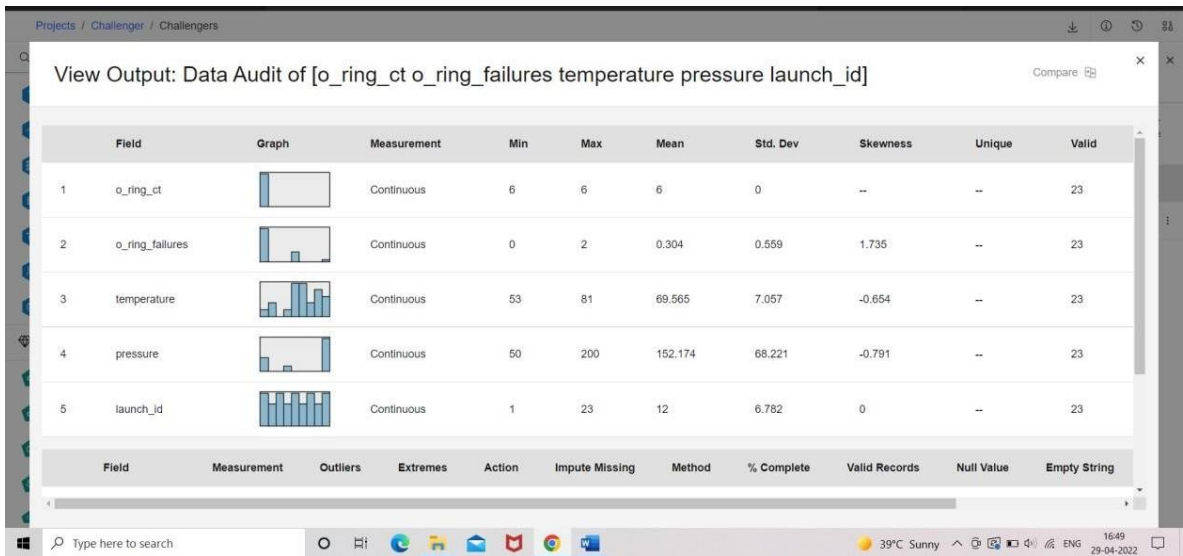
## Import Dataset

The screenshot shows the 'Import' section of a project management interface. The top navigation bar includes 'Projects / Challenger / Challengers'. The 'Import' section is active, displaying a search bar and a list of import options. The 'Data Asset' option is selected. The main area shows a large empty space with a 'Data Asset' icon in the center. The bottom status bar indicates '39°C Sunny' and the date '29-04-2022'.

Audit



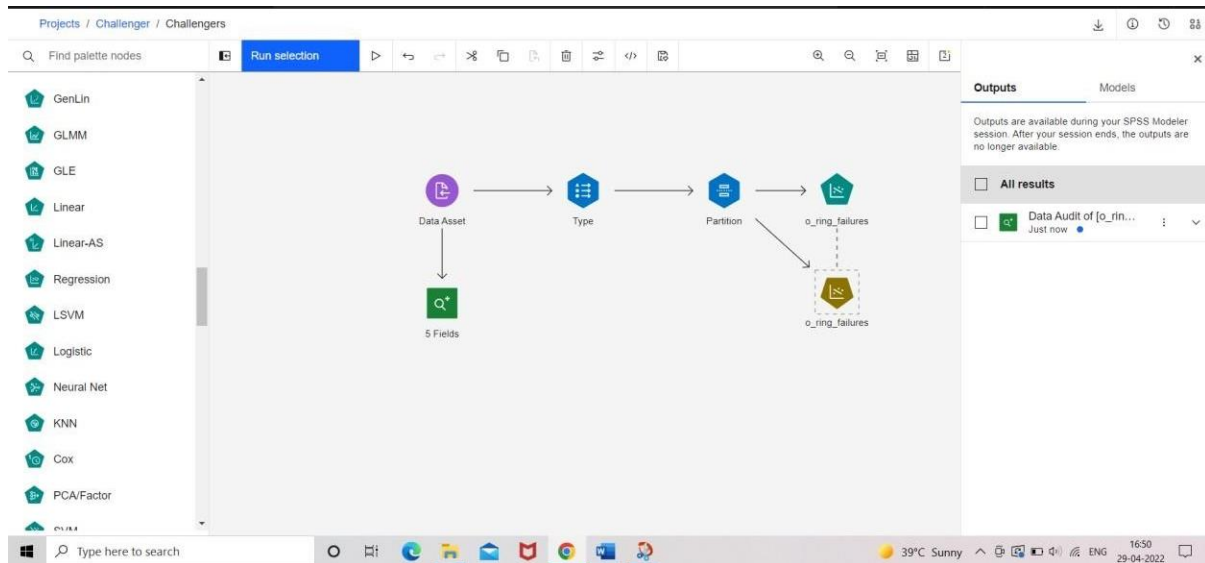
Data Audit



Name: Kadiyala Meghanath  
Campus: VIT Bhopal

Registration Number: 19MIM10097

## Apply Regression Model



## Model View

The screenshot shows the 'View Model: o\_ring\_failures' dialog box. The 'Model Summary' tab is selected, displaying the following statistics:

	1
R	0.766 [1]
R Square	0.587
Adjusted R Square	0.561
Std. Error of the Estimate	0.402

[1] Predictors: (Constant), [%1., temperature]

Tabular Result

Projects / Challenger / Challengers

View Output: Table (7 fields, 23 records)

	o_ring_ct	o_ring_failures	temperature	pressure	launch_id	Partition	\$E-o_ring_failures
1	6	0	66	50	1	1_Training	0.587
2	6	1	70	50	2	1_Training	0.345
3	6	0	69	50	3	1_Training	0.406
4	6	0	68	50	4	2_Testing	0.466
5	6	0	67	50	5	1_Training	0.527
6	6	0	72	50	6	1_Training	0.224
7	6	0	73	100	7	1_Training	0.164
8	6	0	70	100	8	1_Training	0.345
9	6	1	57	200	9	1_Training	1.131
10	6	1	63	200	10	1_Training	0.769
11	6	1	70	200	11	1_Training	0.345
12	6	0	78	200	12	1_Training	-0.139
13	6	0	67	200	13	2_Testing	0.527
14	6	2	53	200	14	1_Training	1.373