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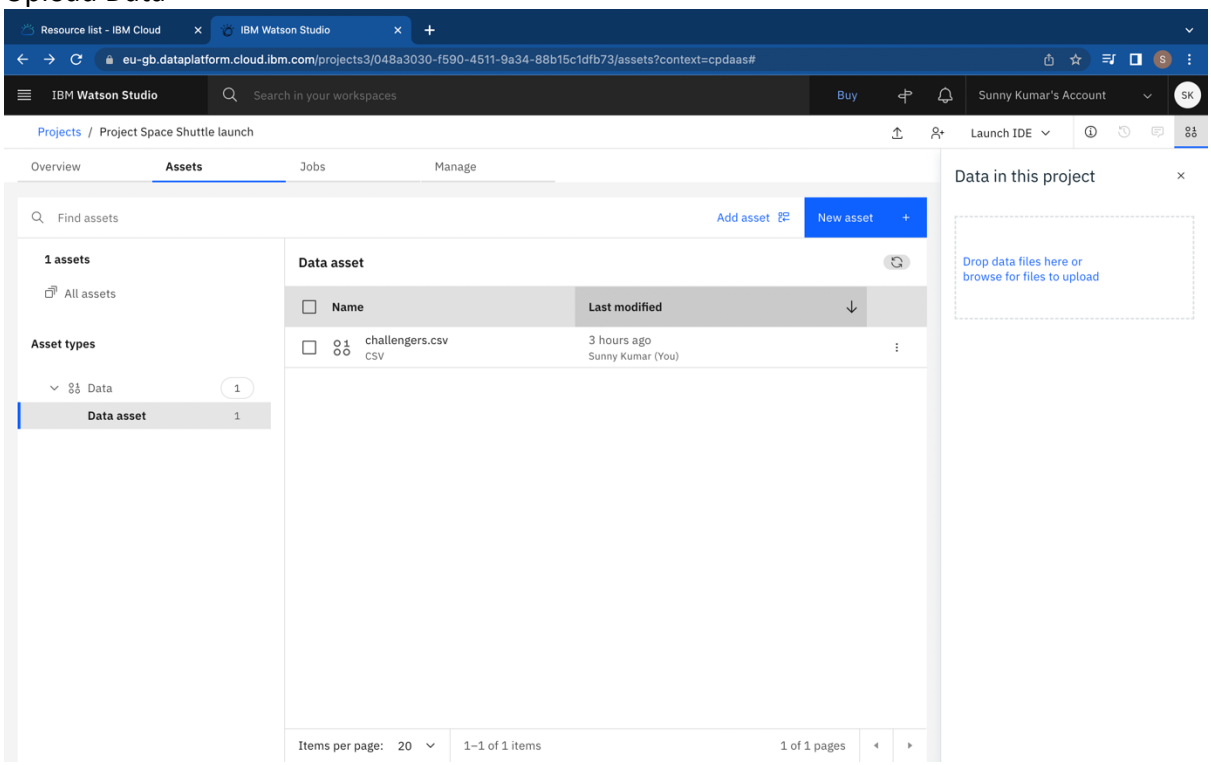
Assignment-2

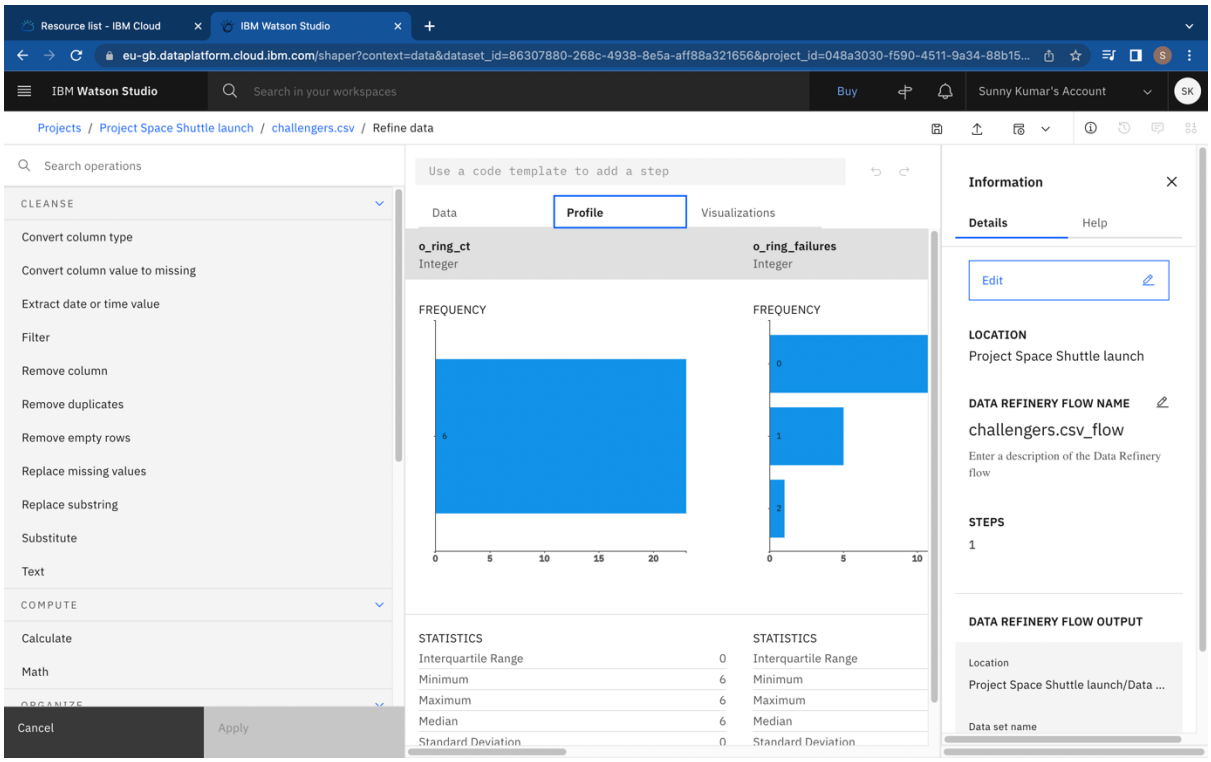
Data set: challengers.csv
Link: https://eu-gb.dataplatform.cloud.ibm.com/projects/048a3030-f590-4511-9a34-88b15c1dfb73/assets?context=cpdaas

1) Login to IBM Cloud.
2) Go to service and software and select Watson Studio.
3) Select Watson Studio and lunch in IBM Cloud Pak for Data.
4) Then create a project with suitable name.
5) Then upload data asset

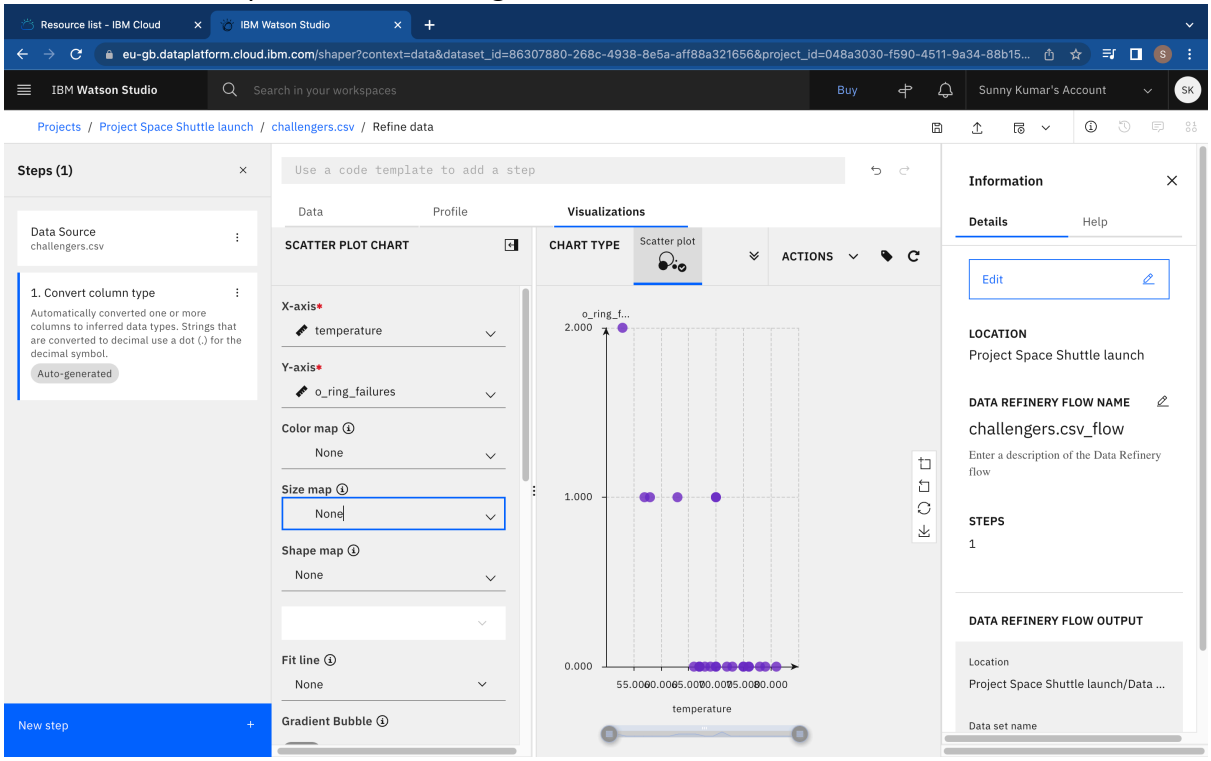
Upload Data



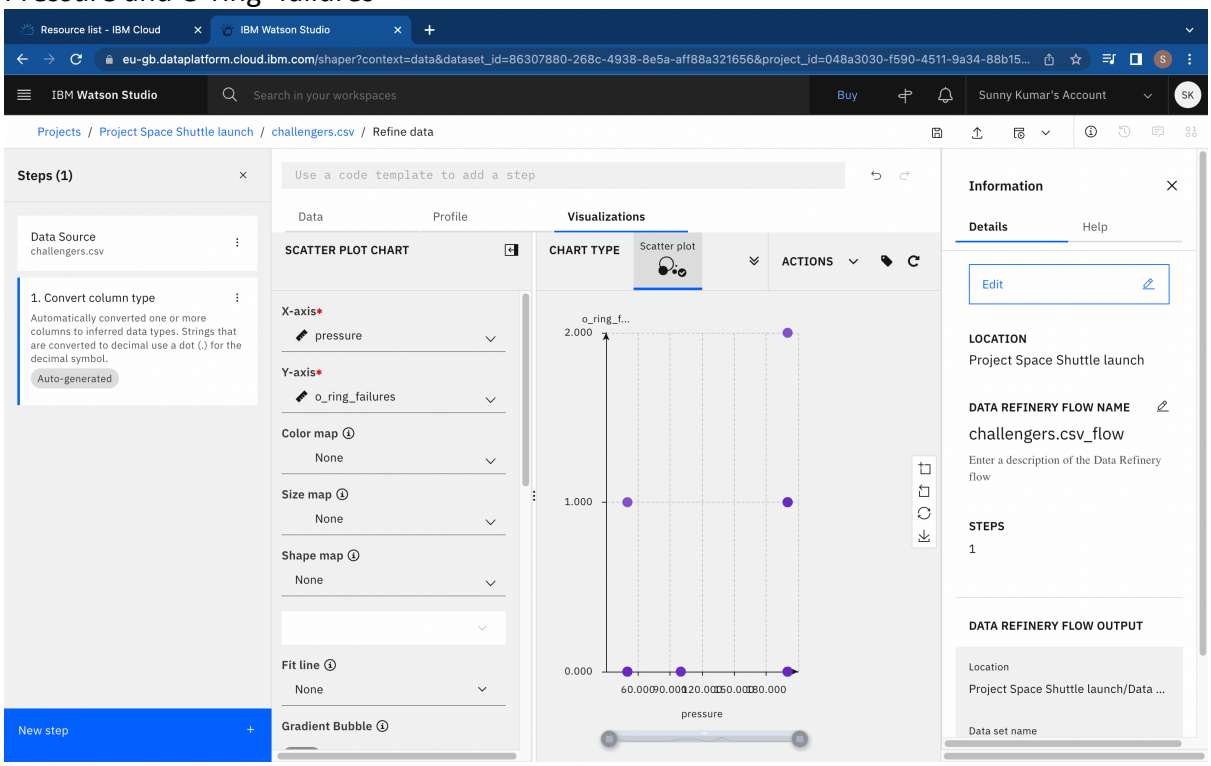
Profile of data



Visualizations:
Co-relation of Temperature and O-ring-failures

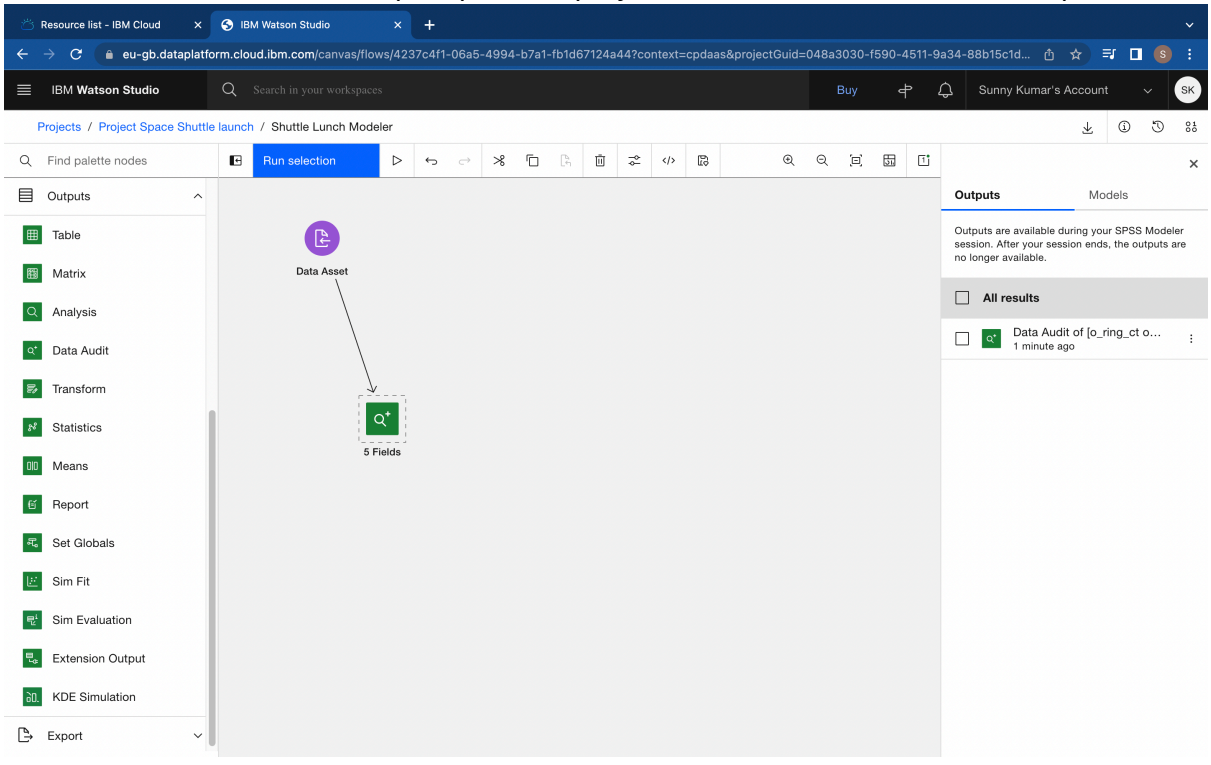


Pressure and O-ring- failures

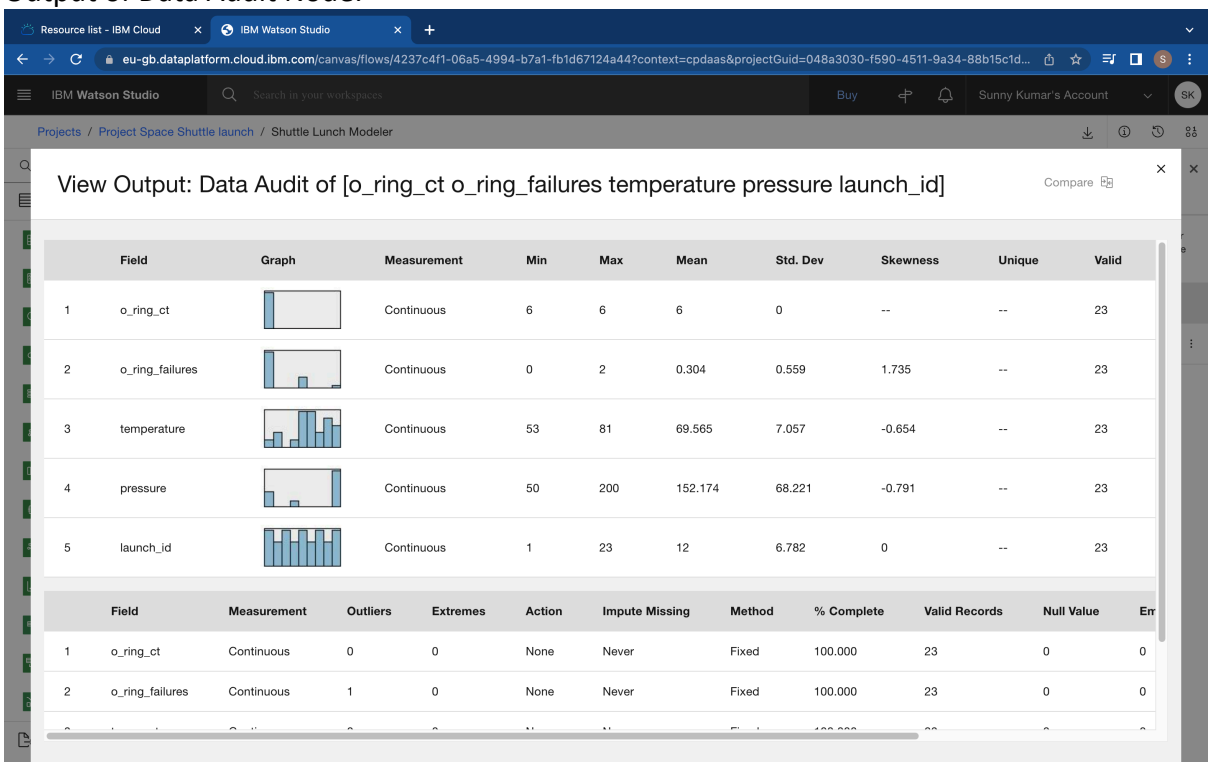


Add modeler flow to the project:

Add Data audit node from outputs pallet to project work bench and connect to input node.



Output of Data Audit Node:



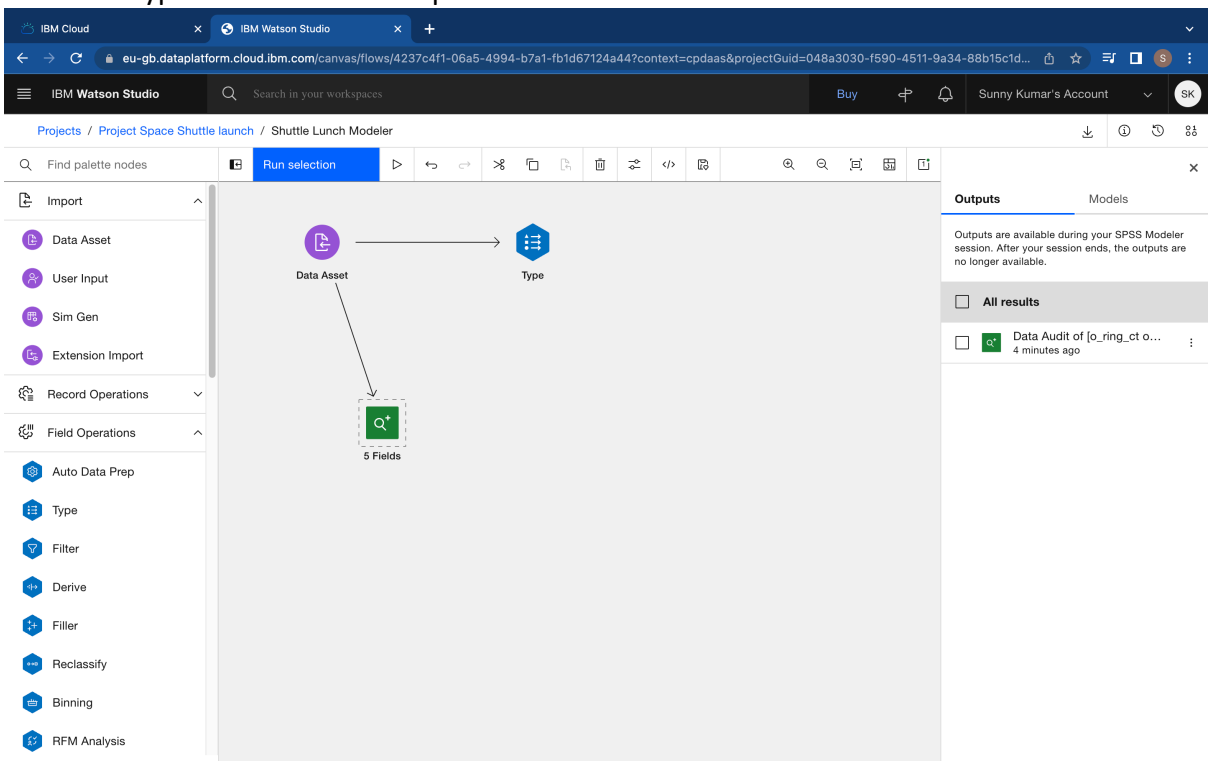
View Output: Data Audit of [o_ring_ct o_ring_failures temperature pressure launch_id]

Compare

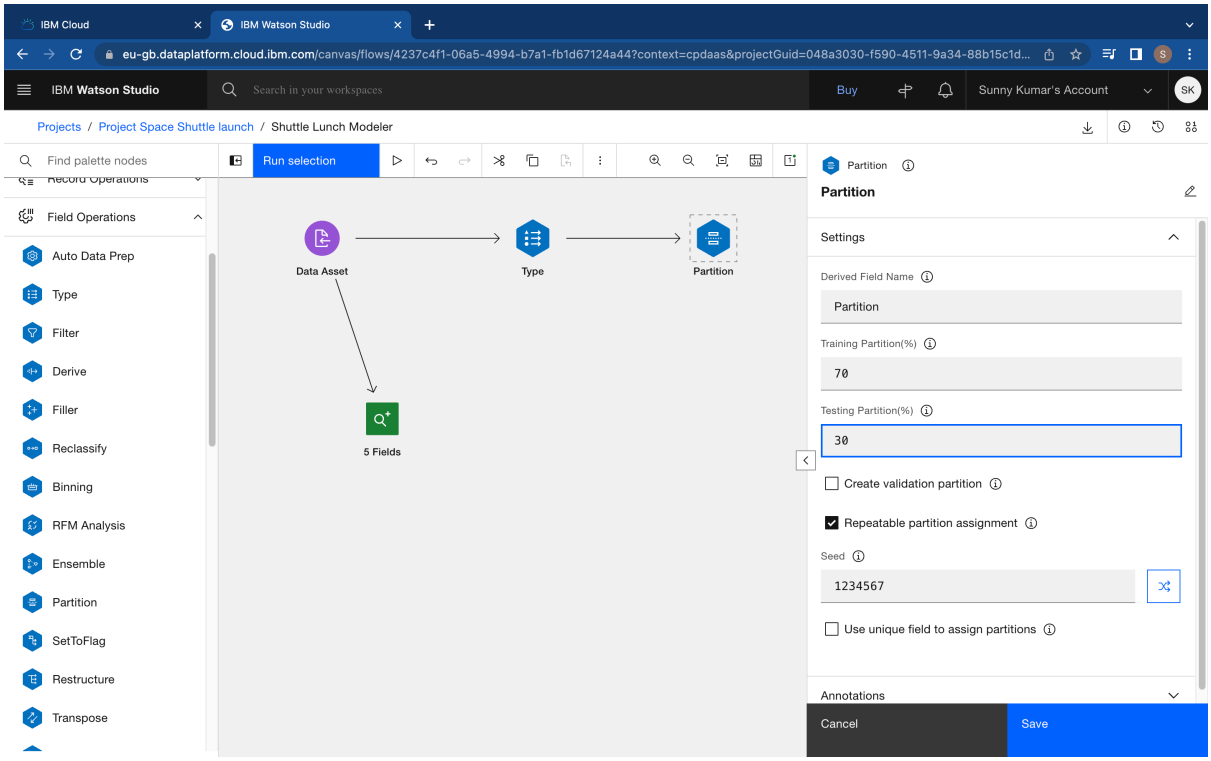
	Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	o_ring_ct		Continuous	6	6	6	0	--	--	23
2	o_ring_failures		Continuous	0	2	0.304	0.559	1.735	--	23
3	temperature		Continuous	53	81	69.565	7.057	-0.654	--	23
4	pressure		Continuous	50	200	152.174	68.221	-0.791	--	23
5	launch_id		Continuous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

	Field	Measurement	Outliers	Extremes	Action	Impute Missing	Method	% Complete	Valid Records	Null Value	Em
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

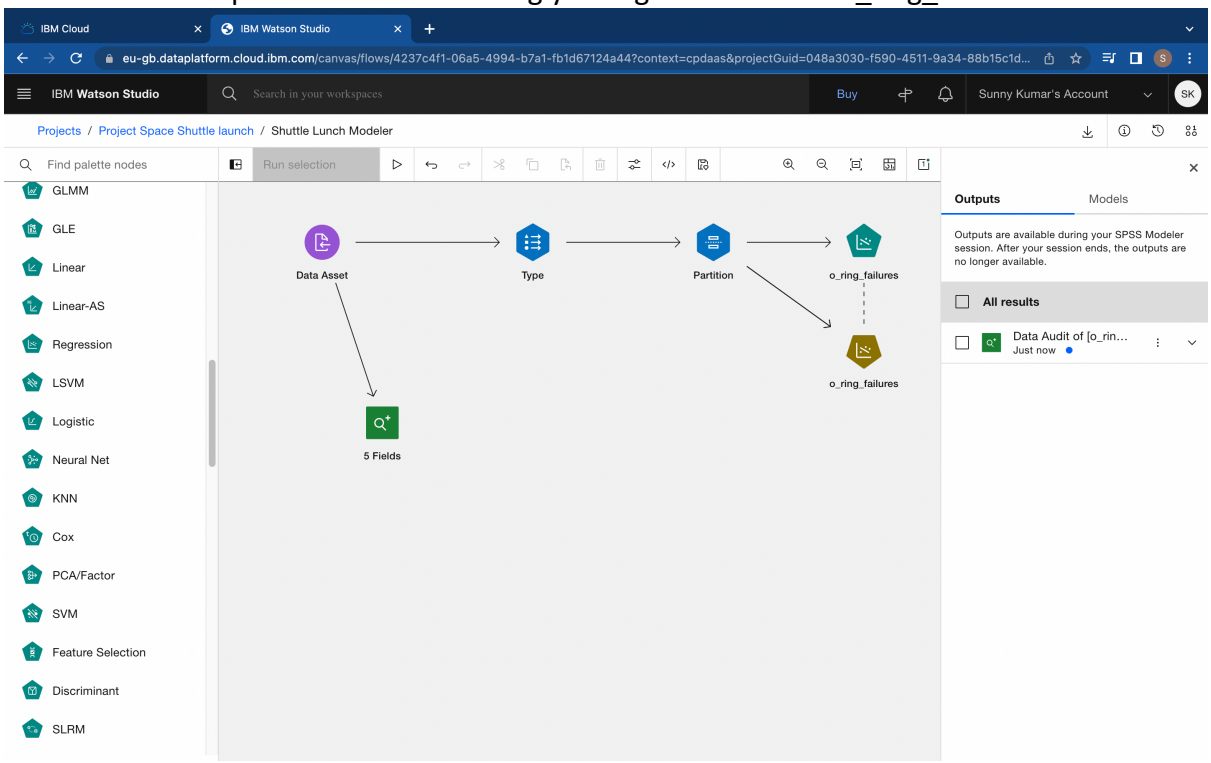
Now add Type Node from field Operations connect to Data Asset in the work bench



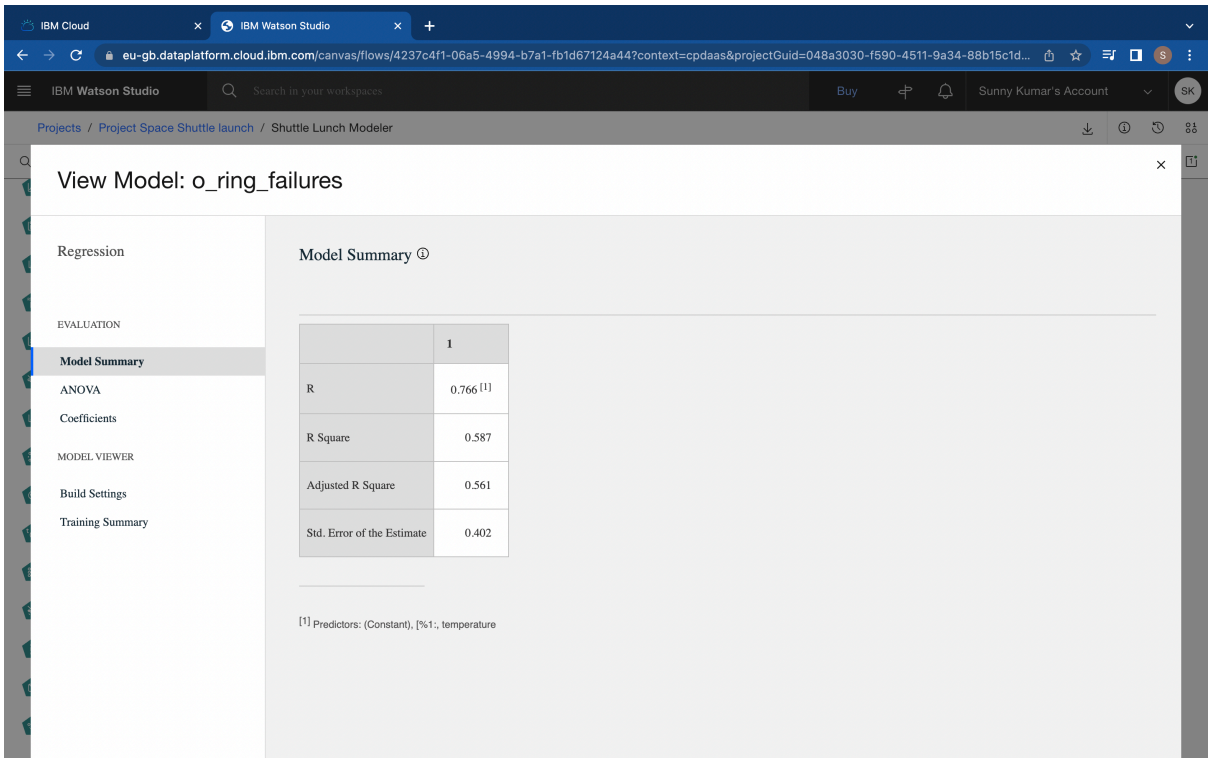
Add Partition Node from filed operation and mark 70% 30% partition to Training and Testing fileds.



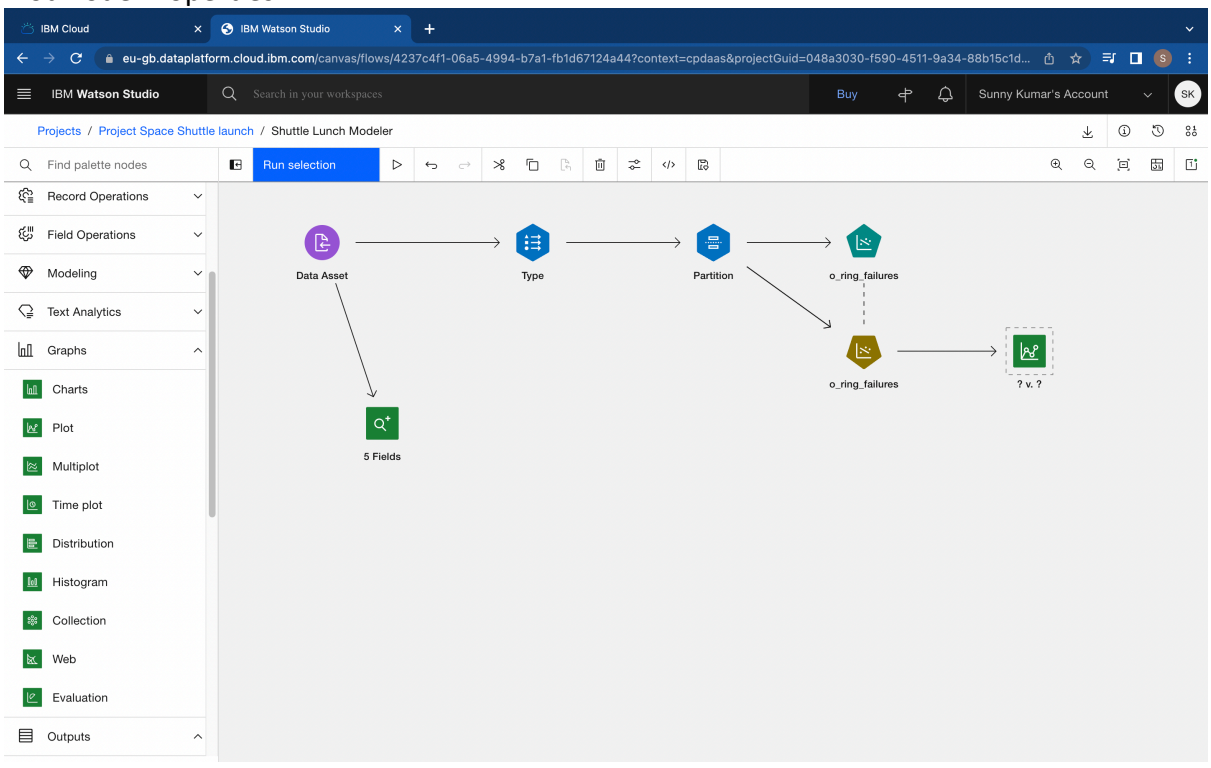
Add Regression Node from Modelling pallet. Connect to Partition Node. It automatically identifies the Output Node and accordingly changes its name as o_ring_failure.

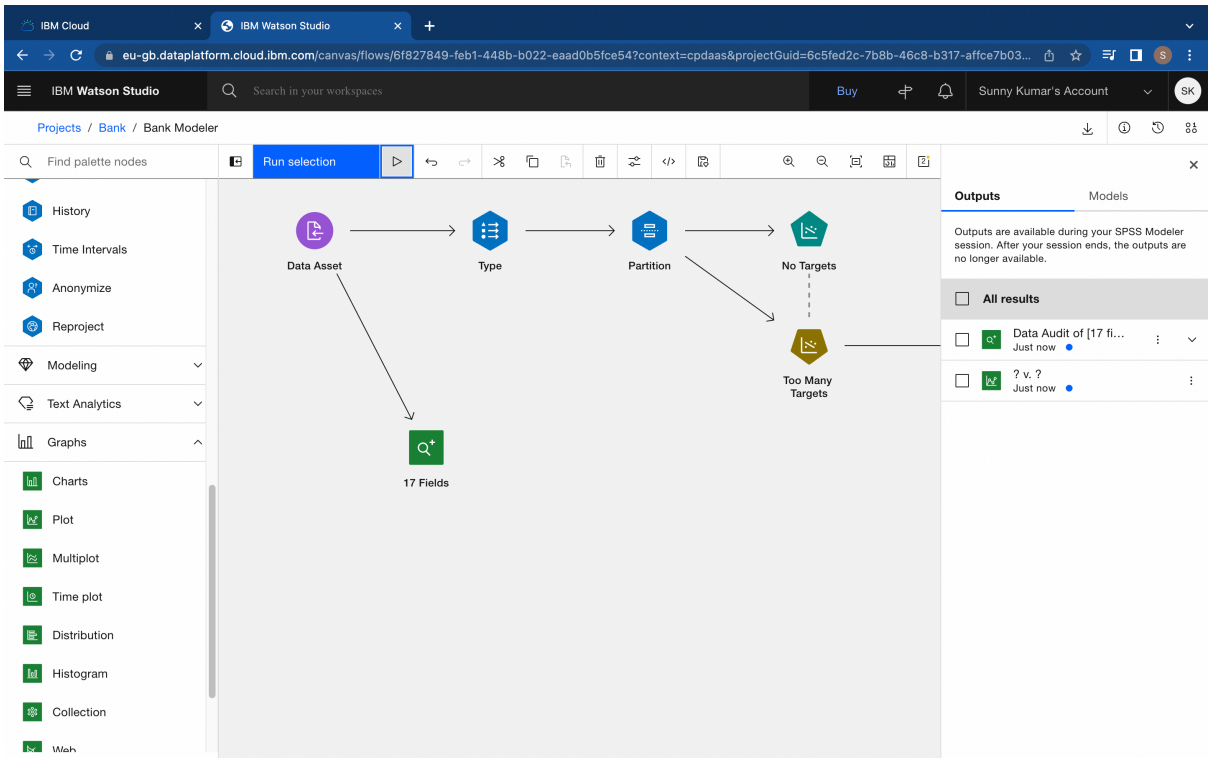


View the Model



Plot Node Properties





Regression plot output