Name: Aditya Yadav

Data Analytics

VIT Vellore, Tamil Nadu

Assignment-2

Dataset: challengers.csv

Link to Dashboard: https://dataplatform.cloud.ibm.com/projects/56e6a2b6-9271-4cde-a504-bafd222f2e4e/assets?context=cpdaas

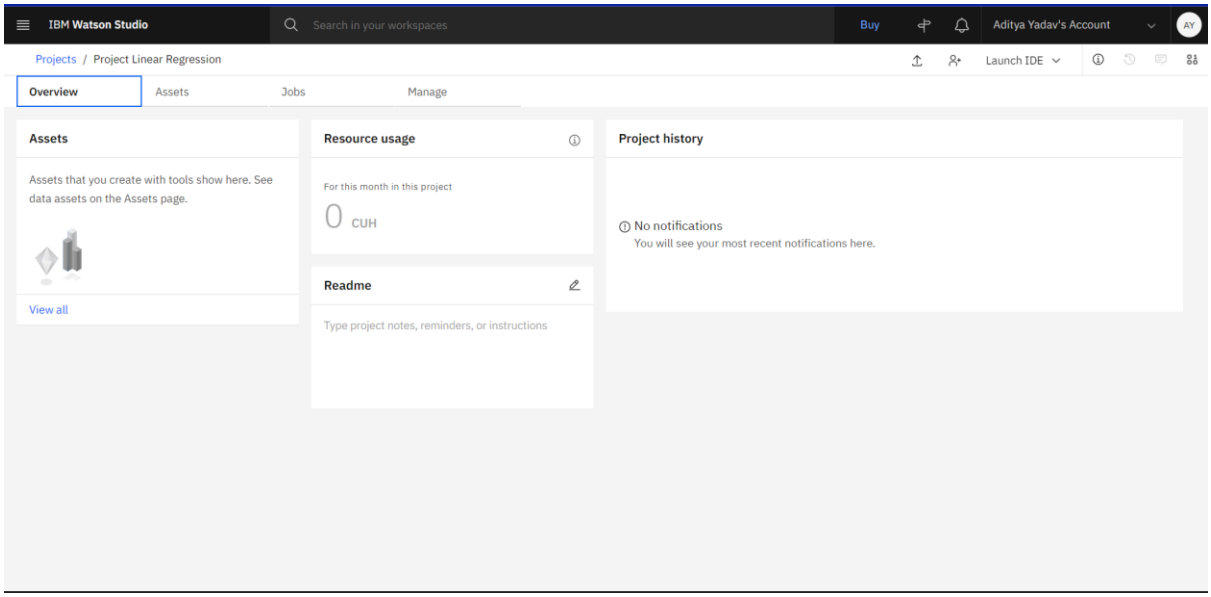


Fig: Creating a new project and the overview screen of the project

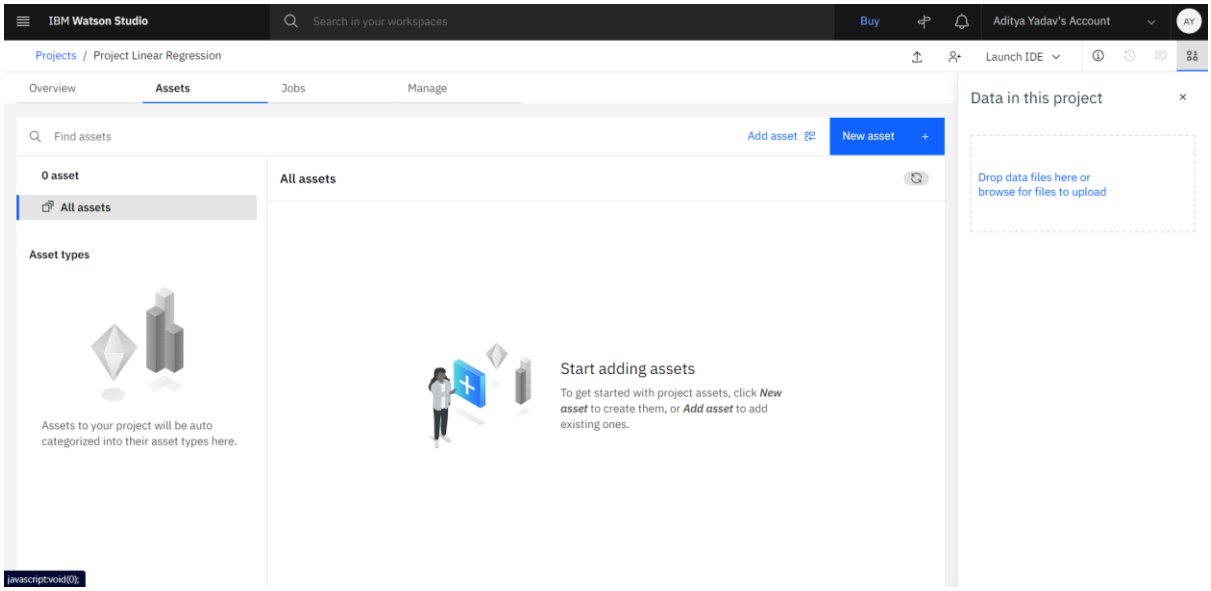


Fig: Go to assets and load your data.

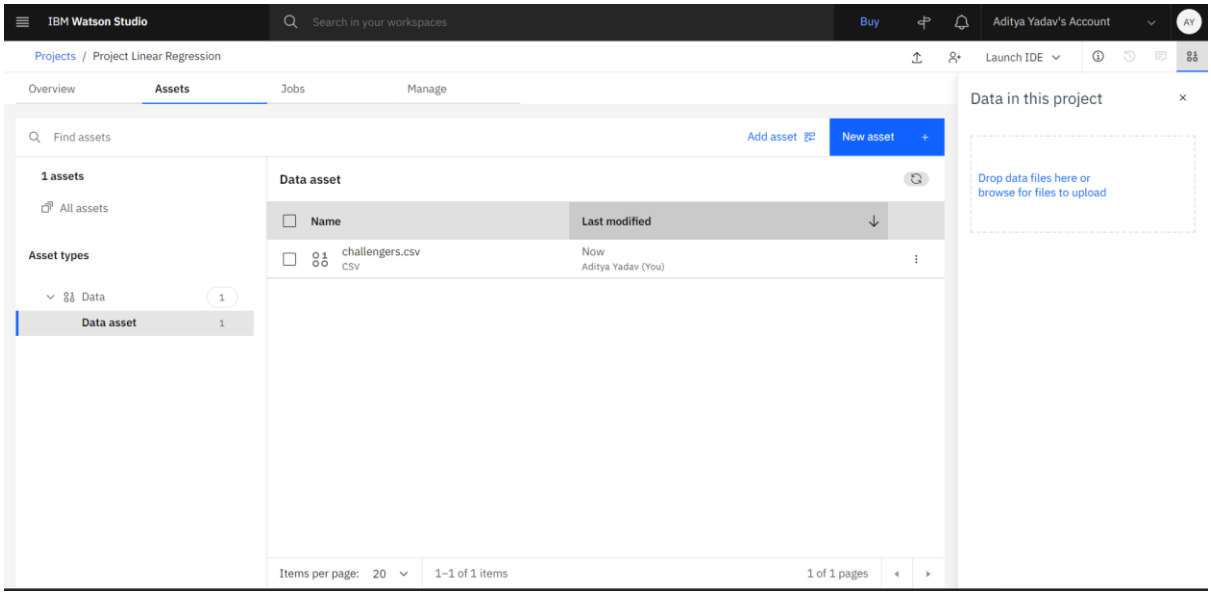


Fig: uploaded dataset appears in the data asset section.

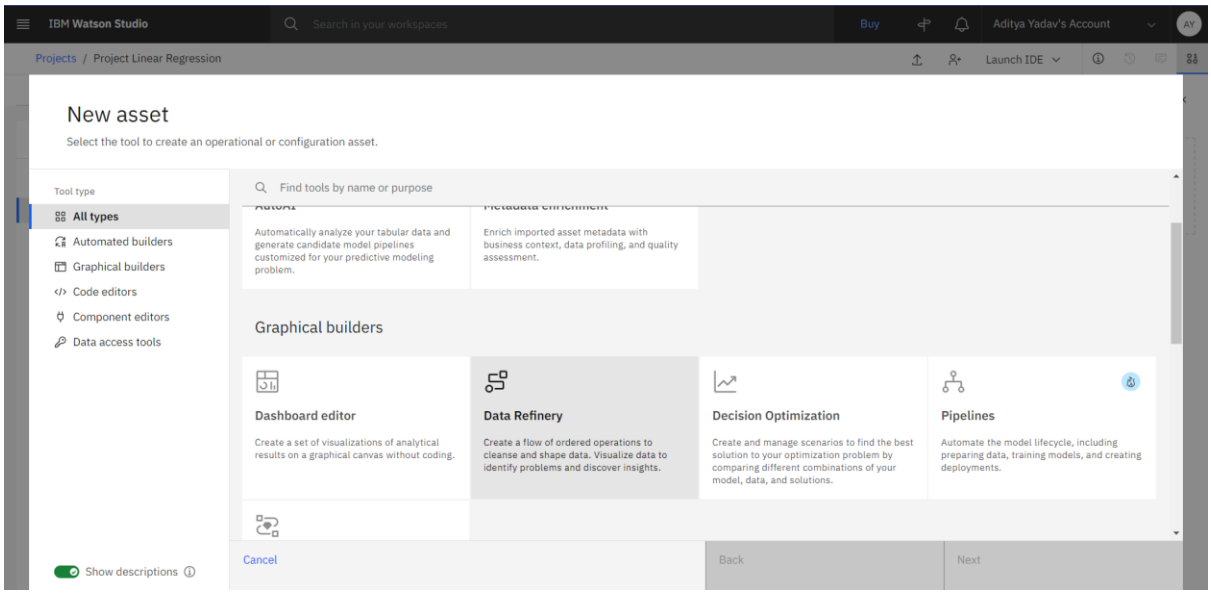


Fig: Add new asset namely data refinery

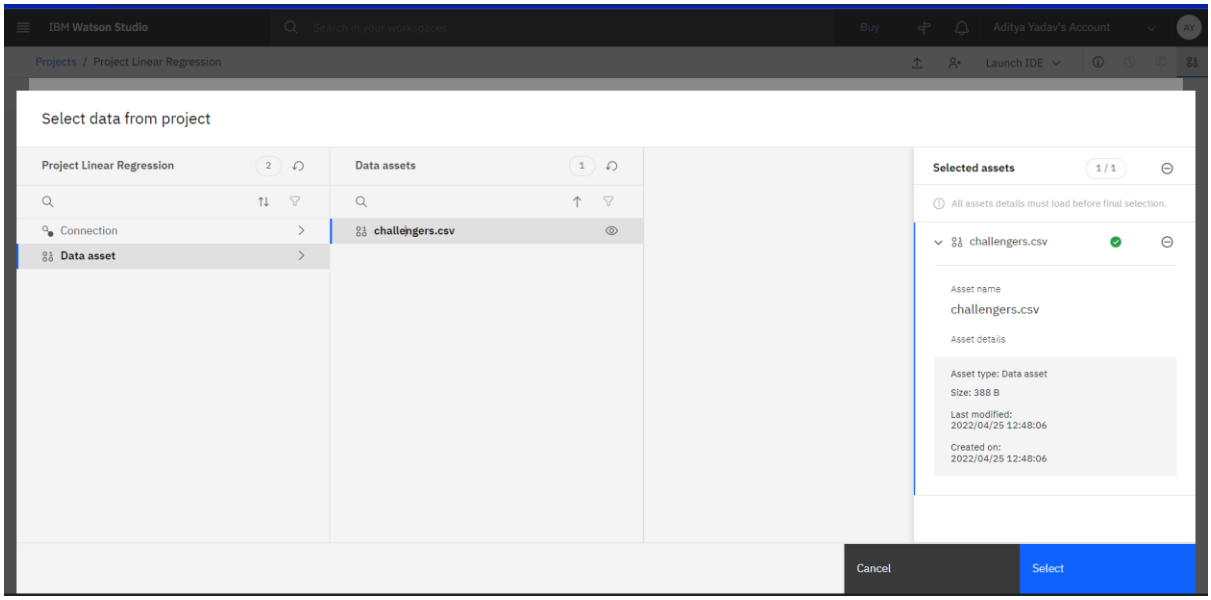


Fig: select dataset of the project after adding data refinery.

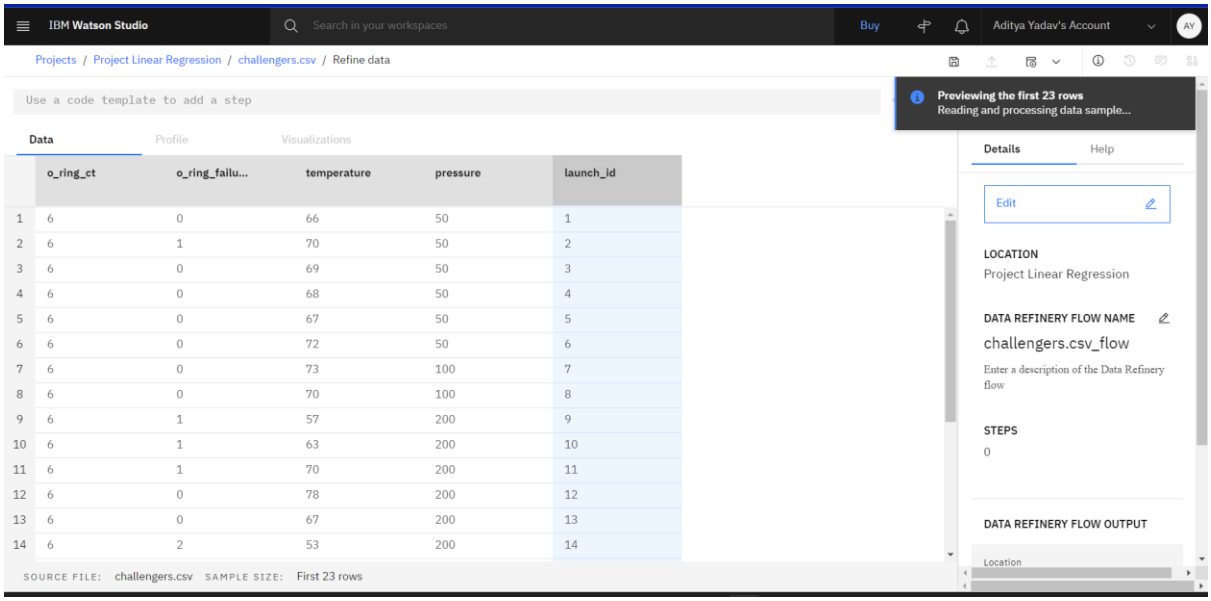


Fig: descriptive statistics of the data that we imported.

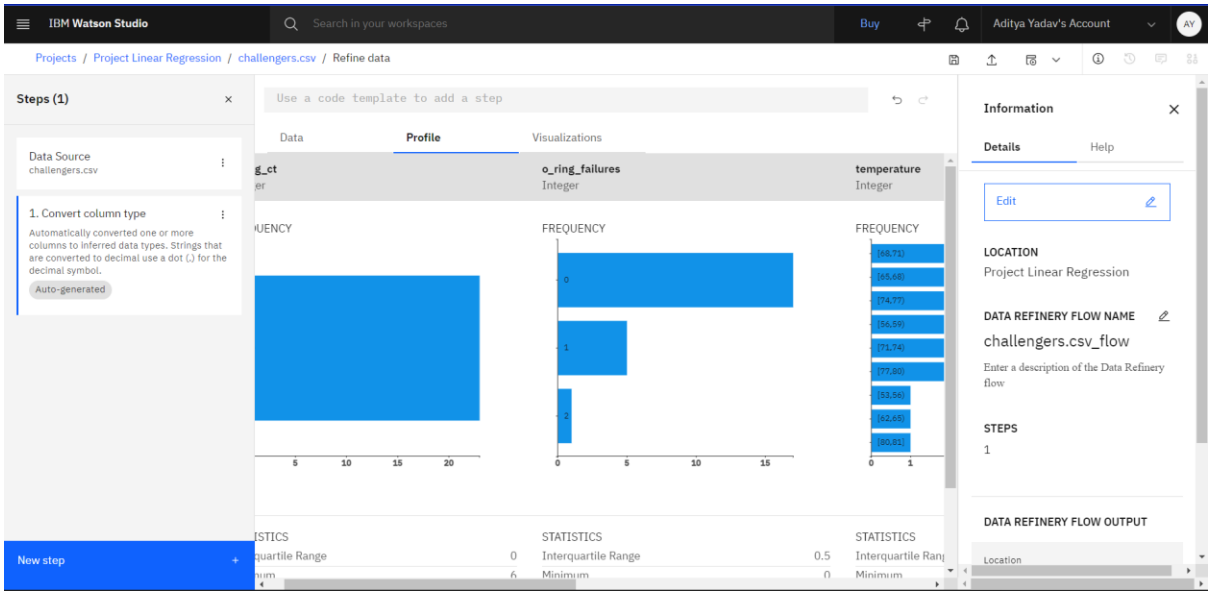


Fig: generated profiles of our data.

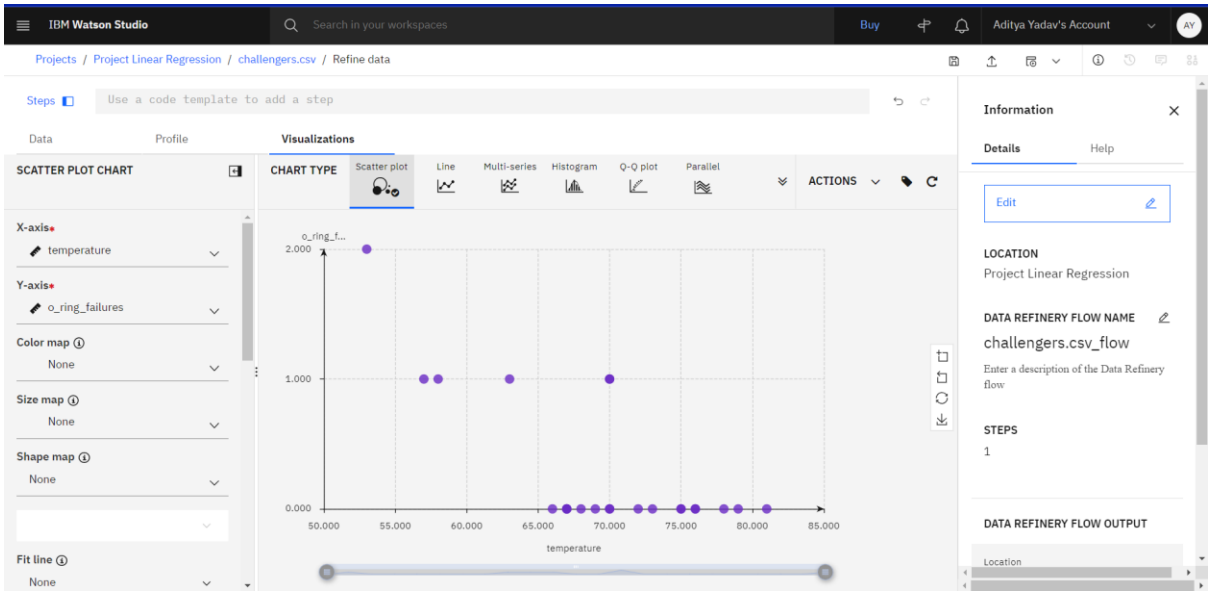


Fig: Visualizing temperature with respect to o_ring_failures.

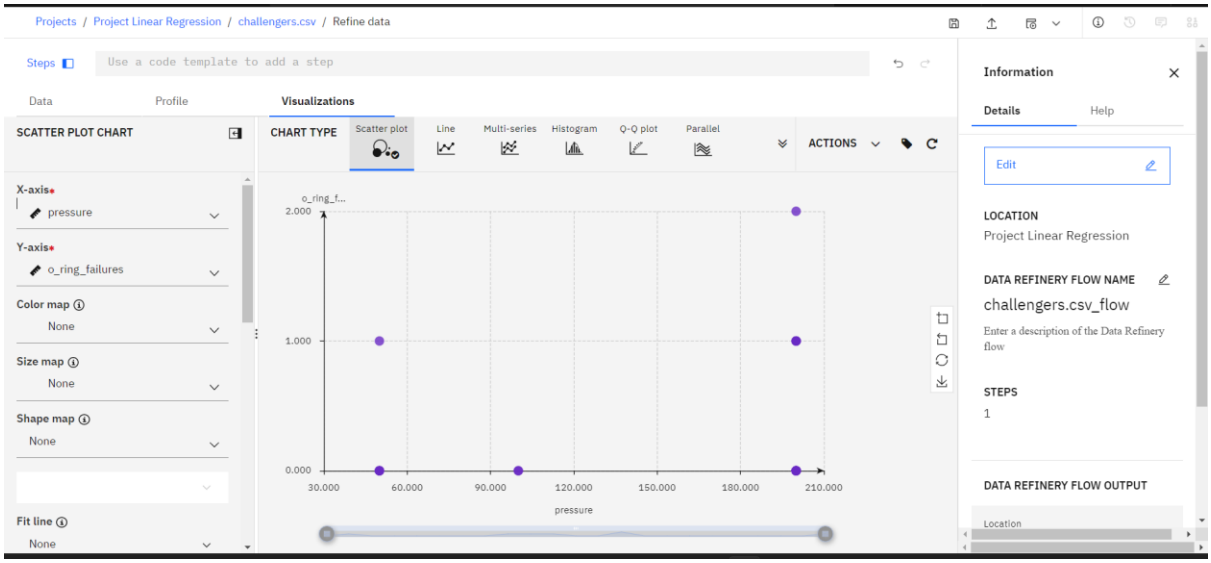


Fig: Visualizing pressure with respect to o_ring_failures and save.

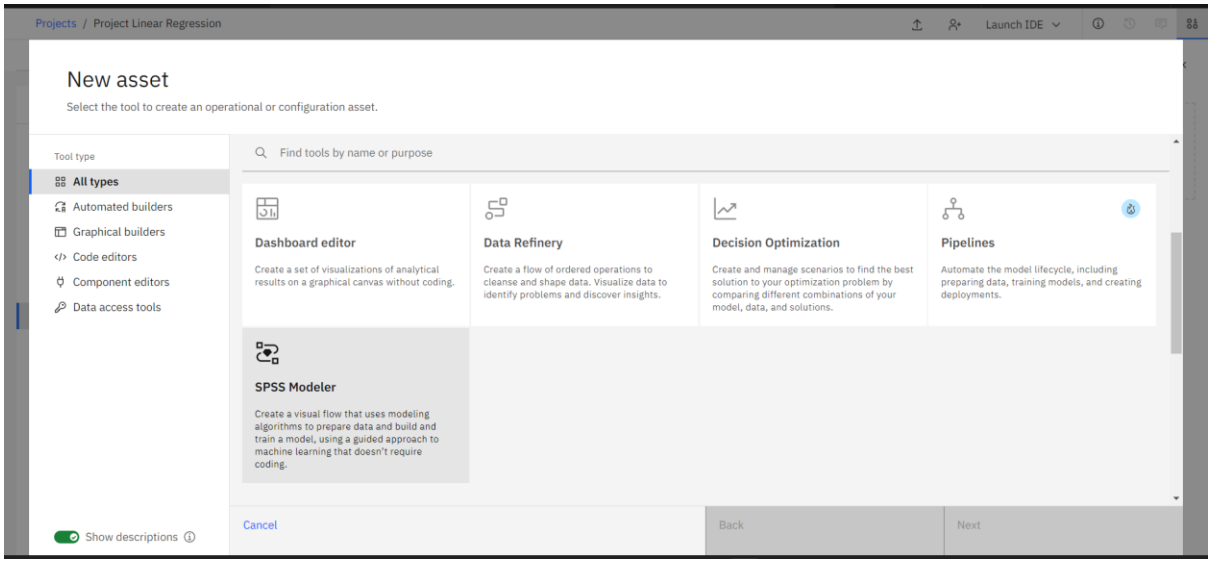


Fig: Add a new asset for SPSS modeler.

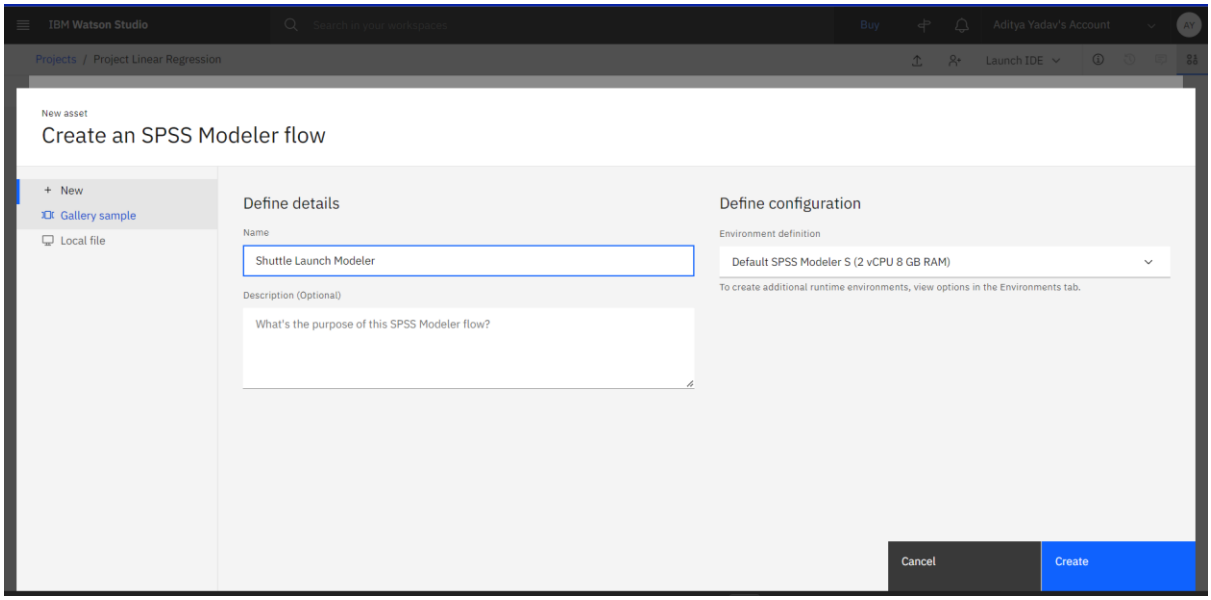


Fig: create an SPSS modeler flow

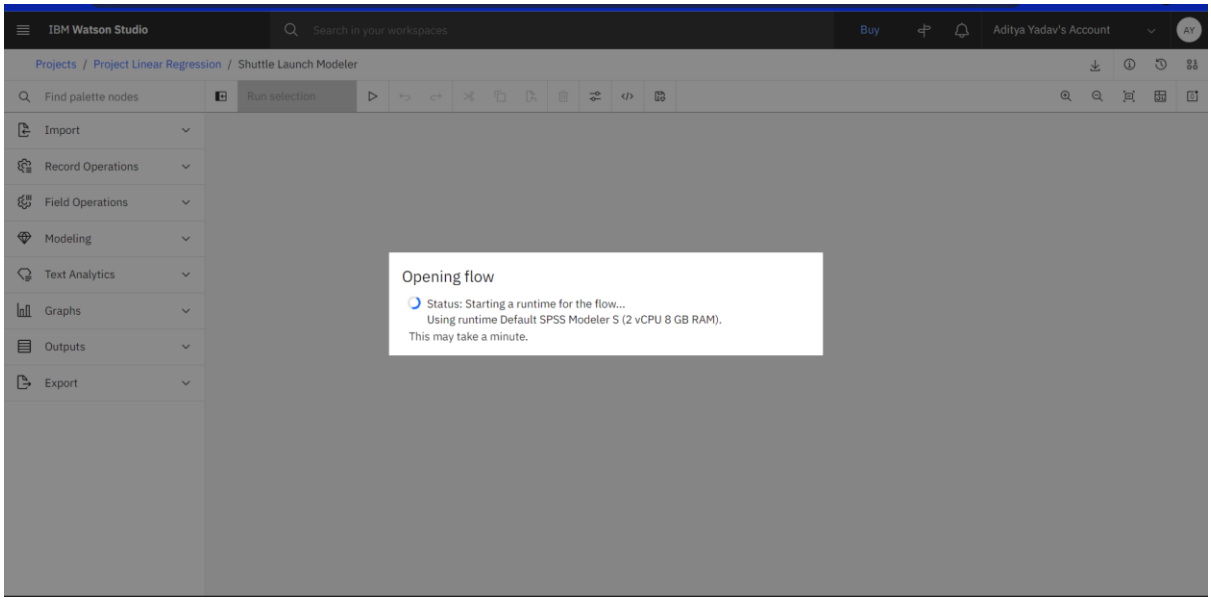


Fig: Workbench of the modeler is being created.

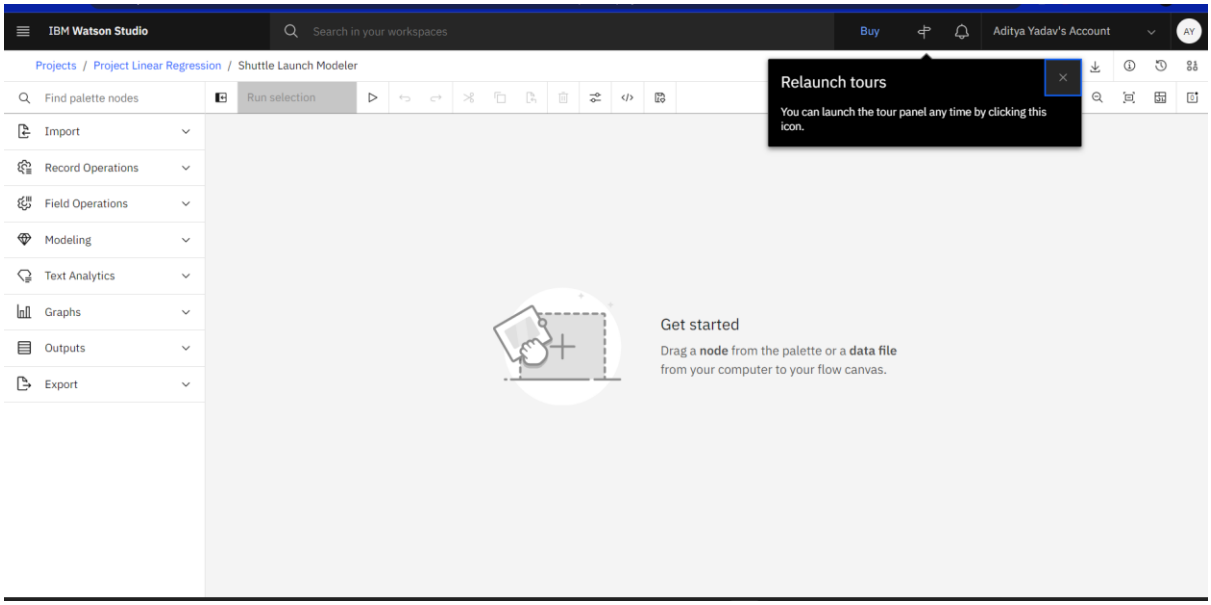


Fig: work-bench

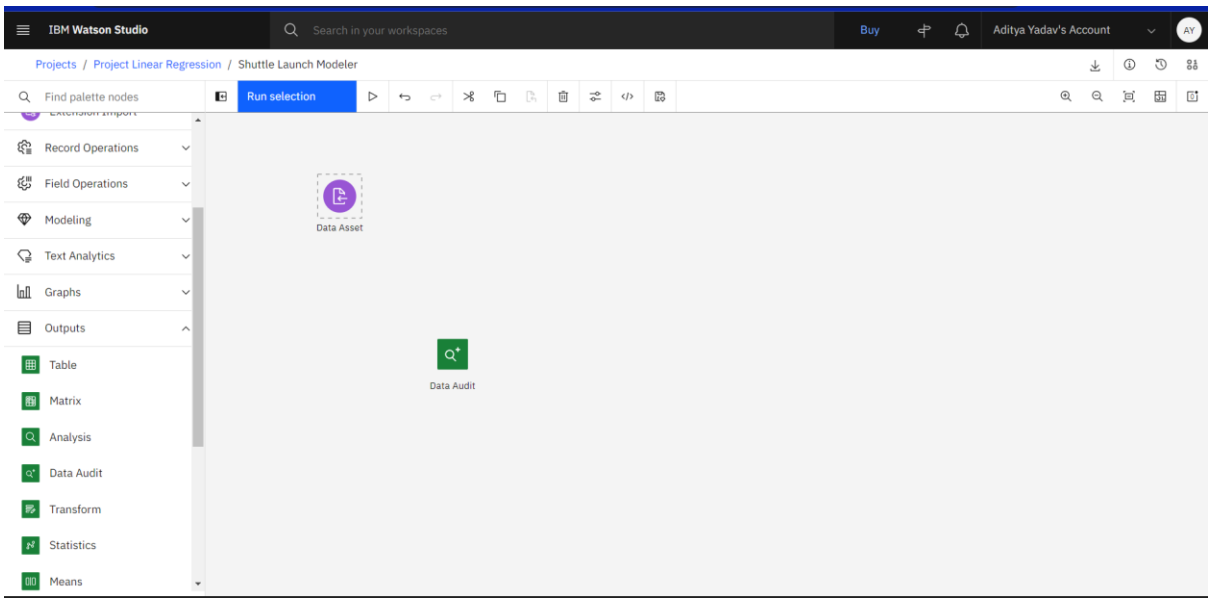


Fig: drag and drop data asset from import and connect dataset to it and drop data audit.

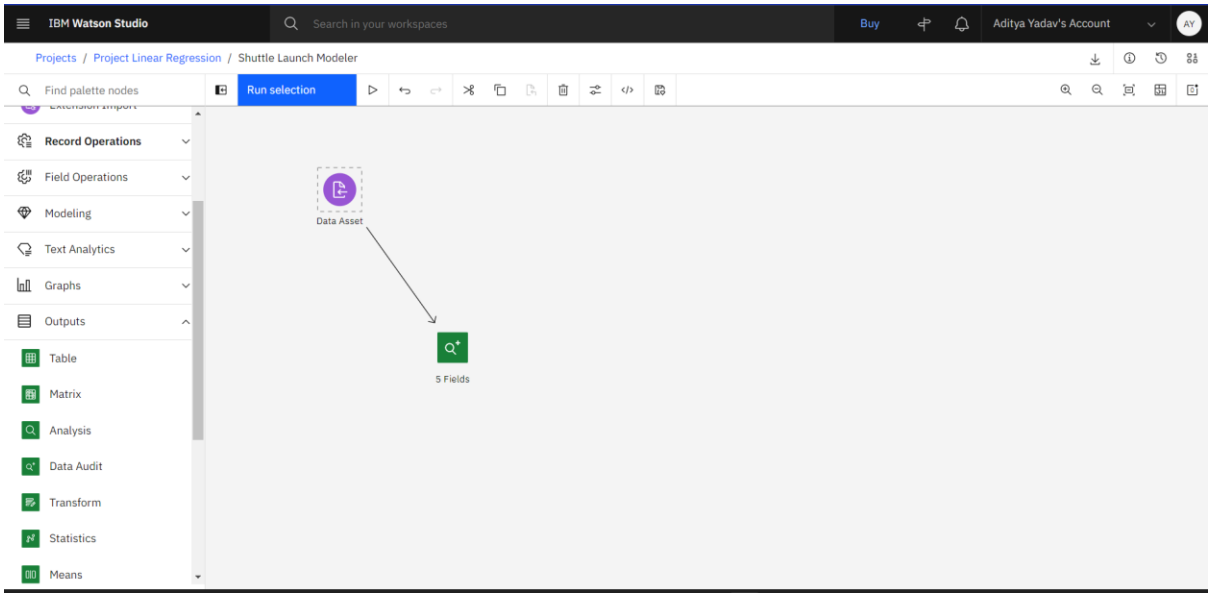


Fig: link data asset to the data audit.

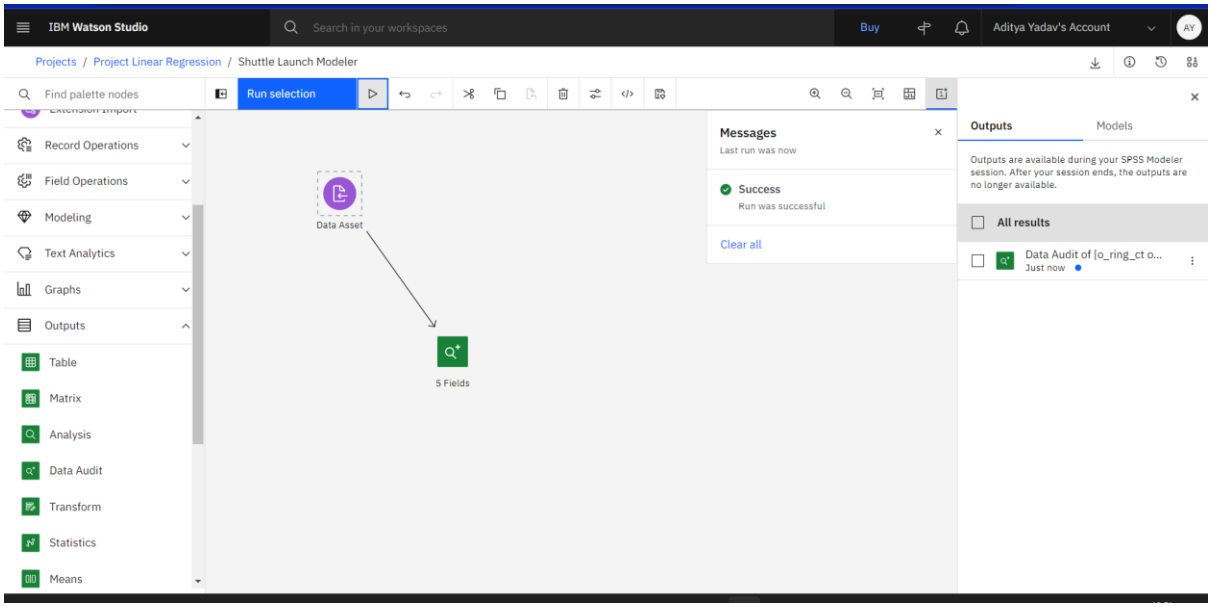


Fig: run the created model

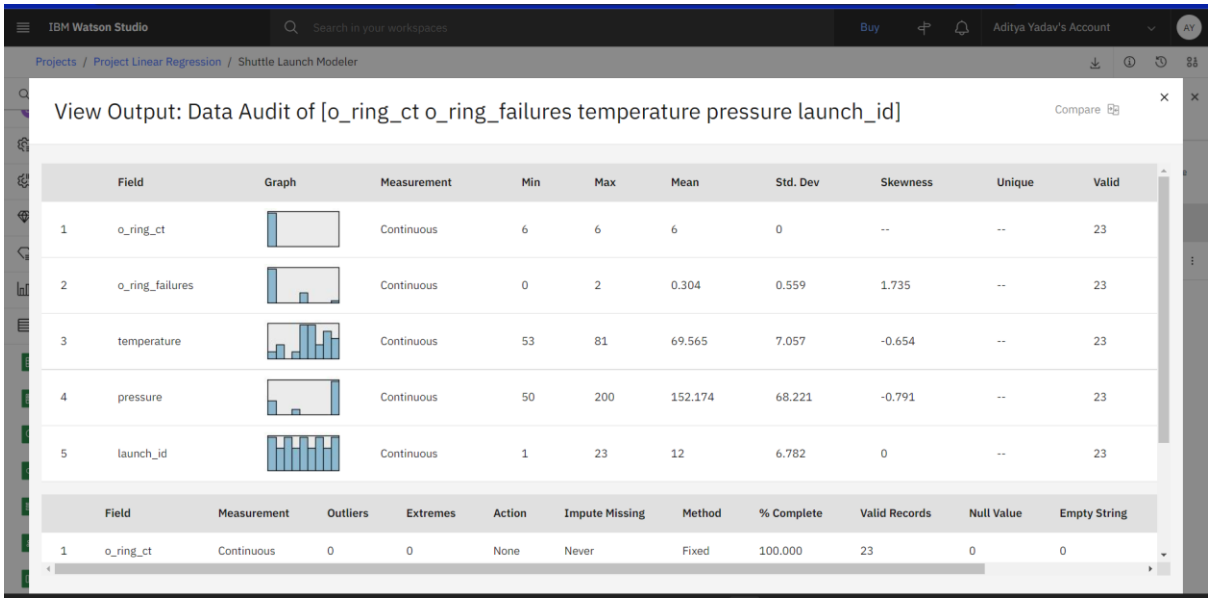


Fig: descriptive analytics of the data audit.

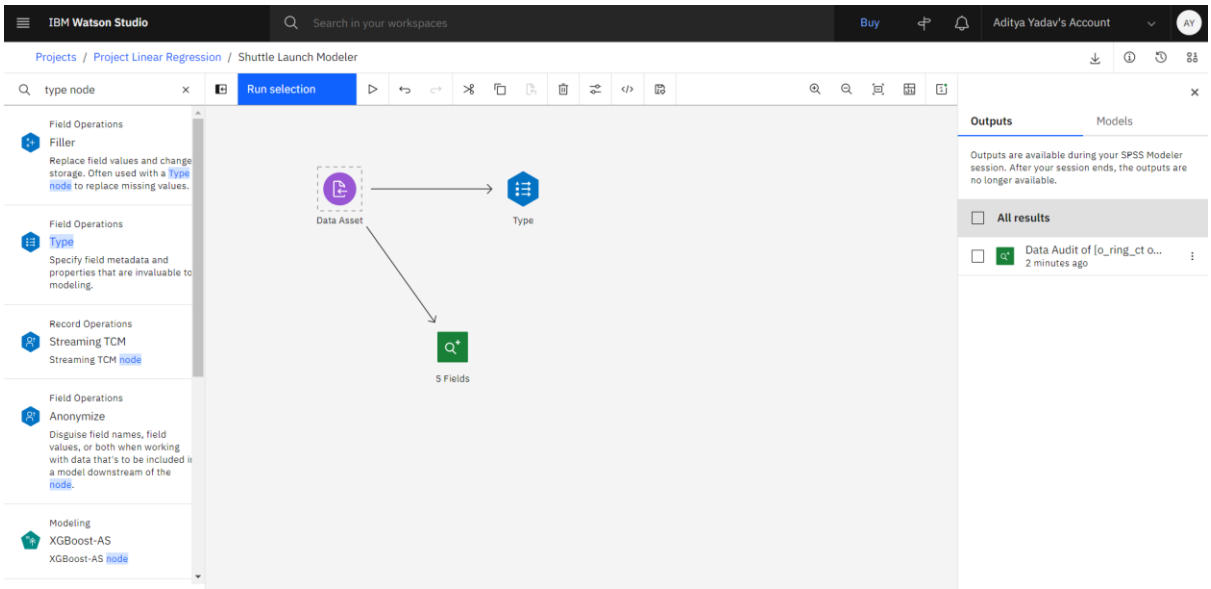


Fig: Add type node and connect it with the data asset.

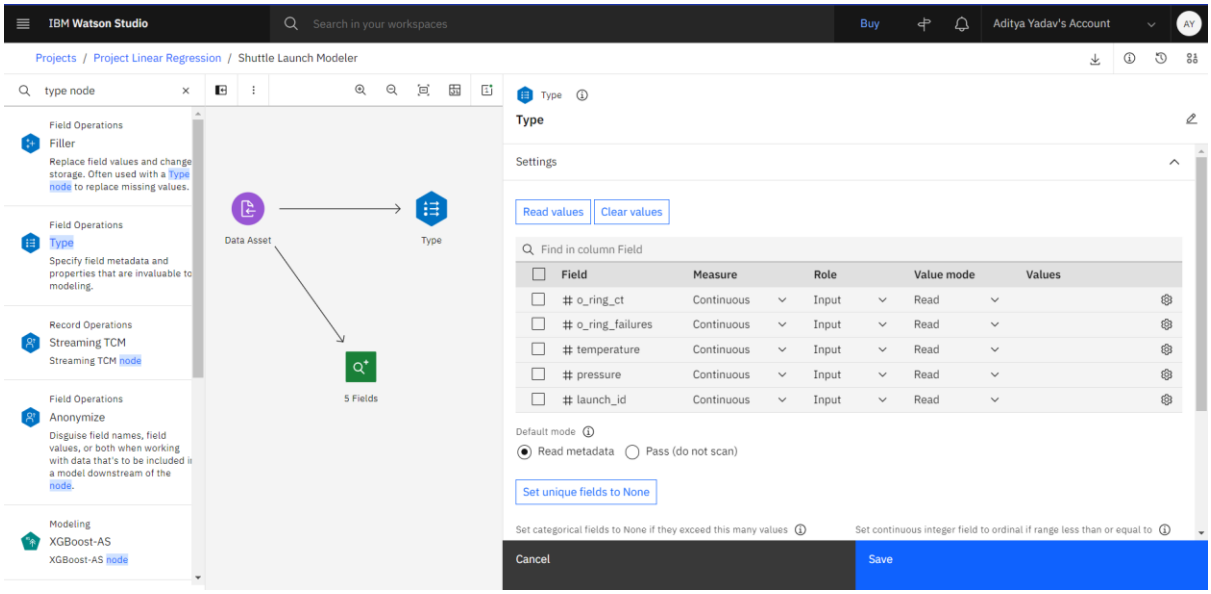


Fig: Properties of the type node.

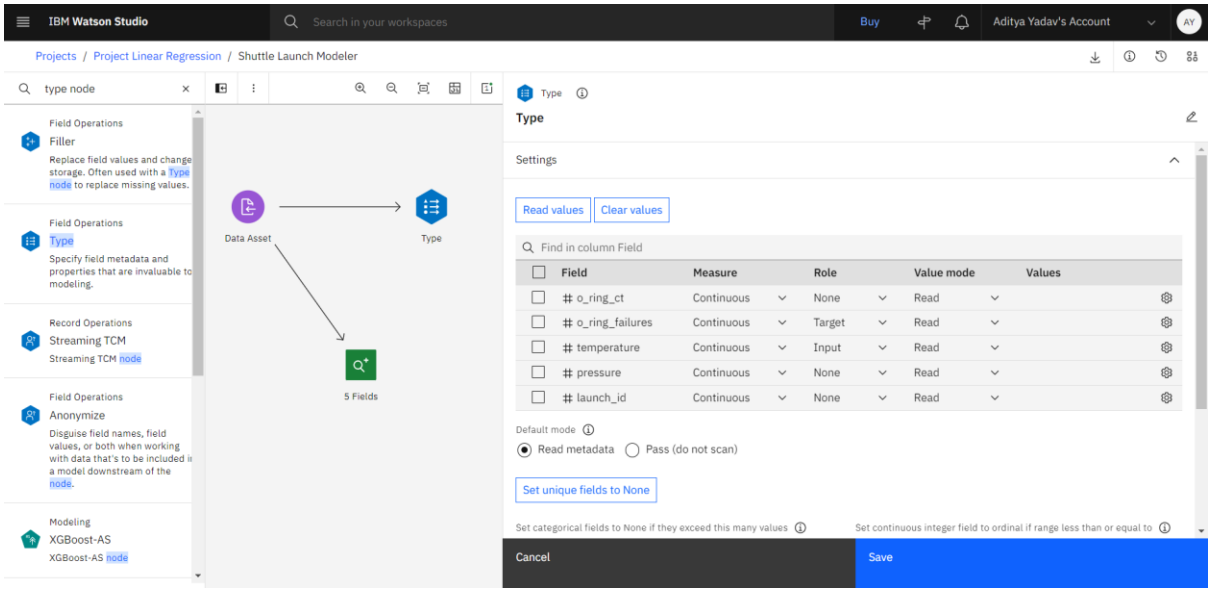


Fig: make o_ring_failure as target and temperature as input.

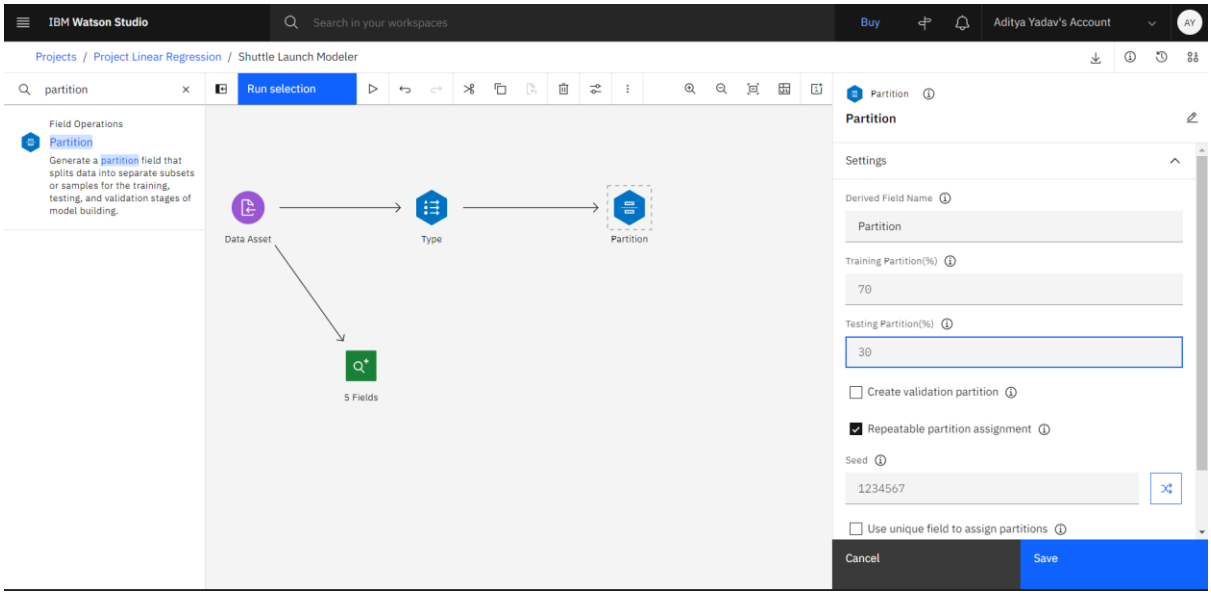


Fig: add and connect partition node and update training and testing percentage.

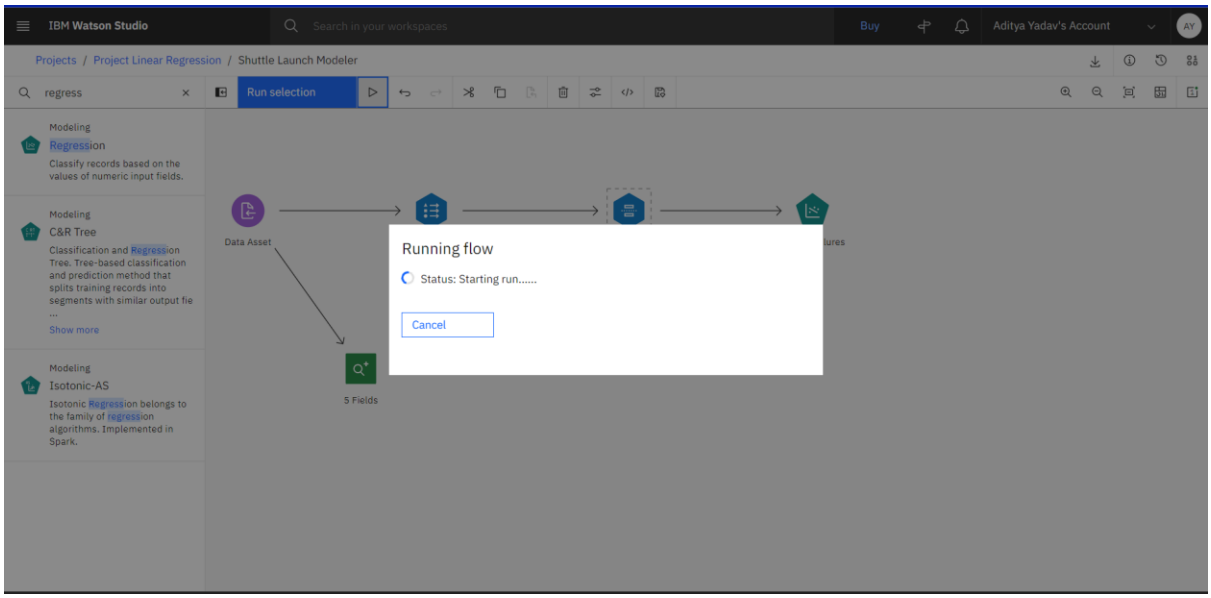


Fig: add regression model and connect to the partition node and run the model.

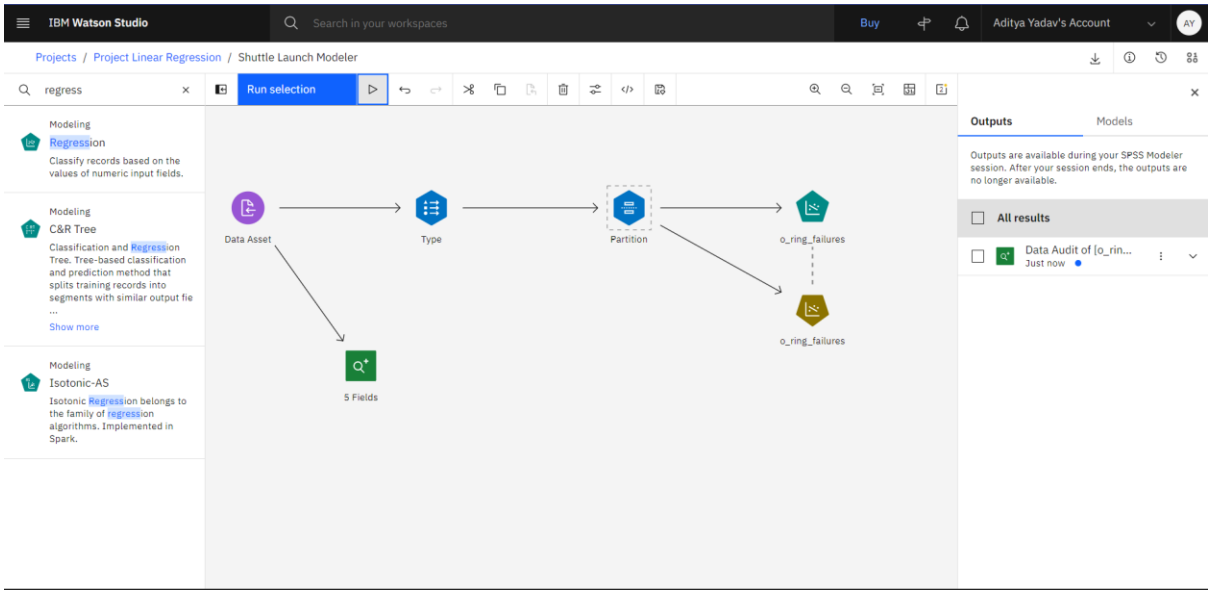


Fig: output after running the model after adding the regression model.

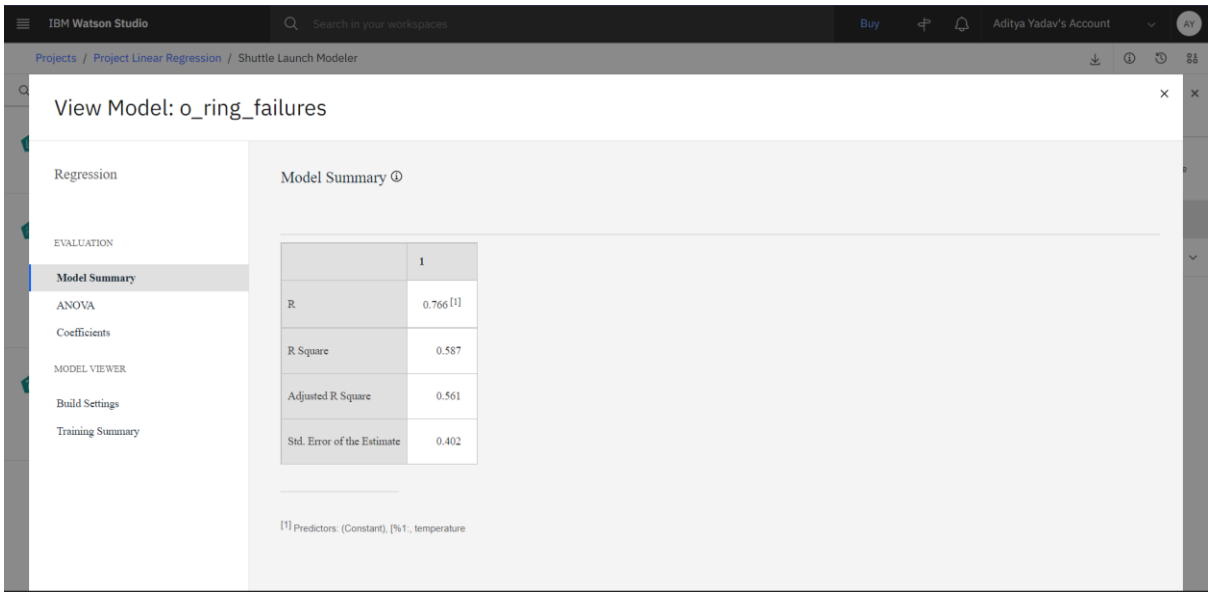


Fig: View model of the generated output.

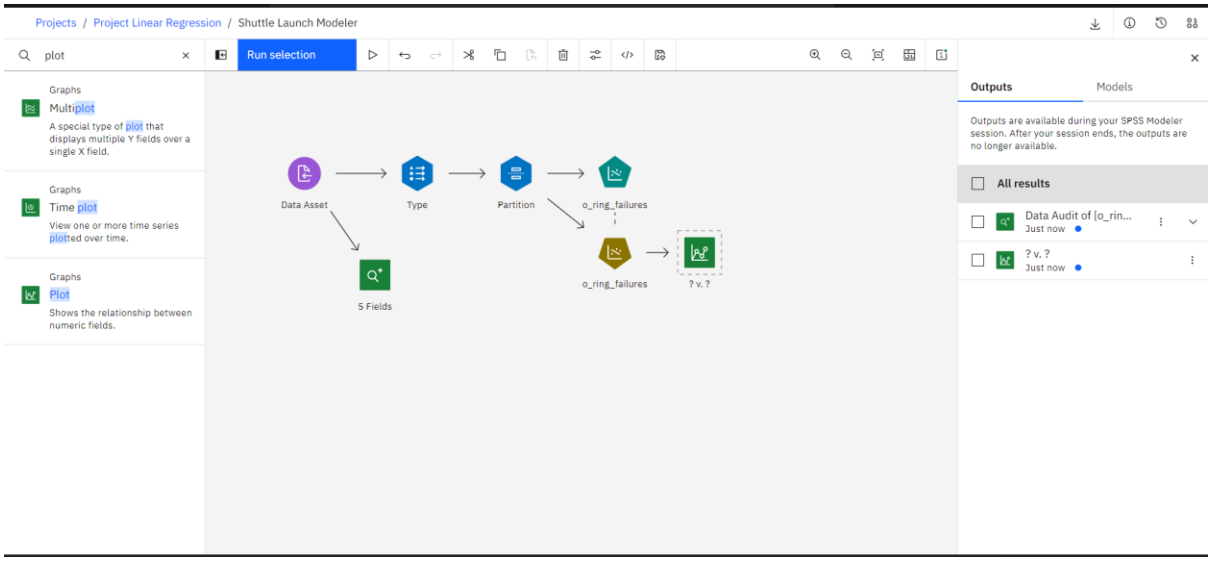


Fig: Add plot node to the model and connect to the regression model and give the parameter and run the model.

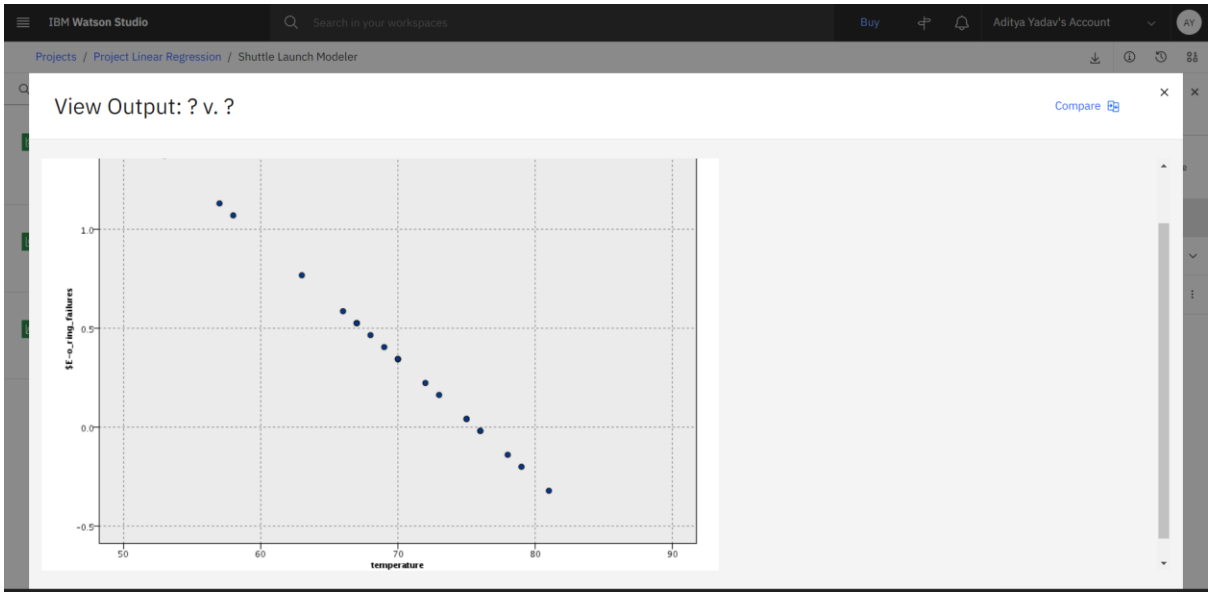


Fig: view the plotted graph

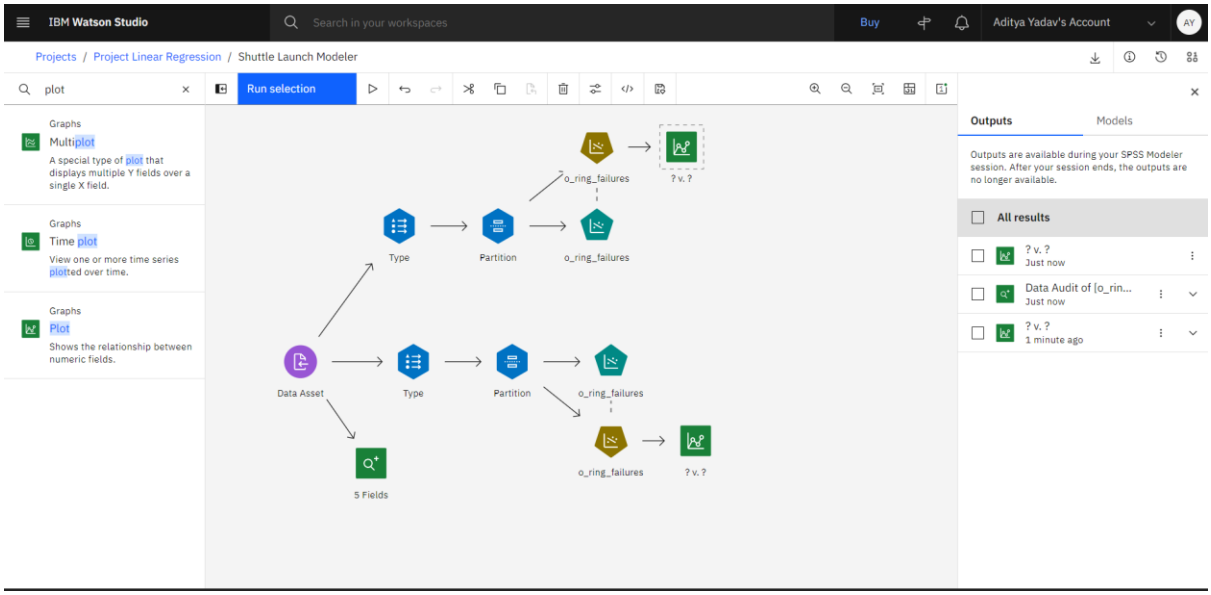


Fig: perform same steps by taking pressure in the above part of the model and plot the graph.

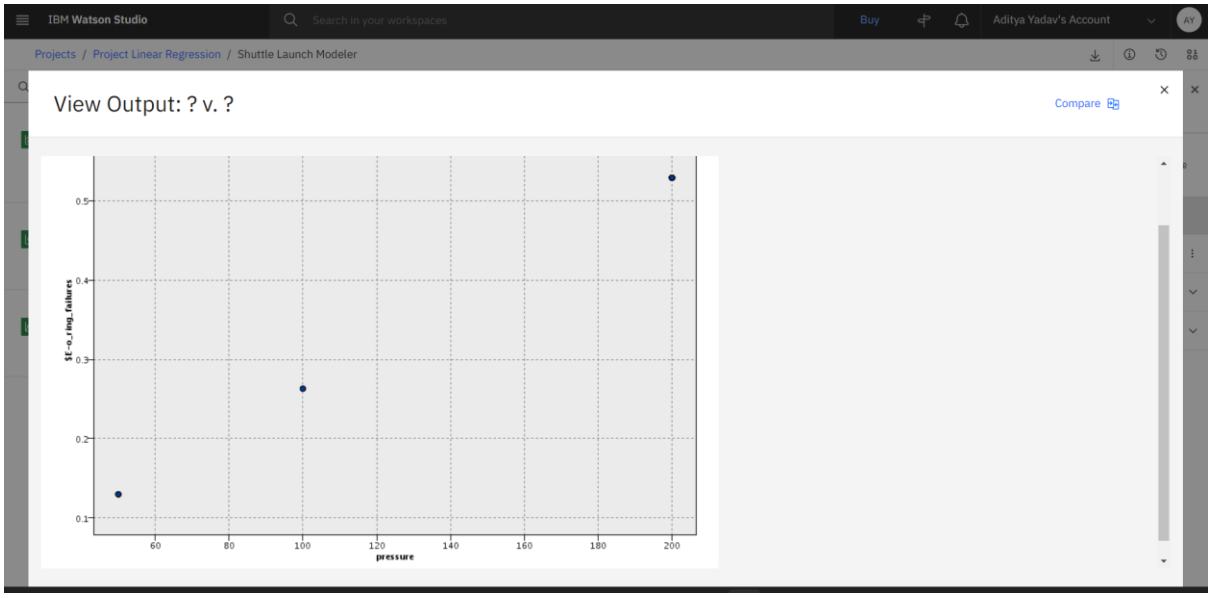


Fig: plot the graph for pressure vs o_ring_failure.

Dataset: bank.csv

Link to dashboard: https://dataplatform.cloud.ibm.com/projects/469ce38c-0dfd-473f-952f-aaf46a4d8e69/assets?context=cpdaas

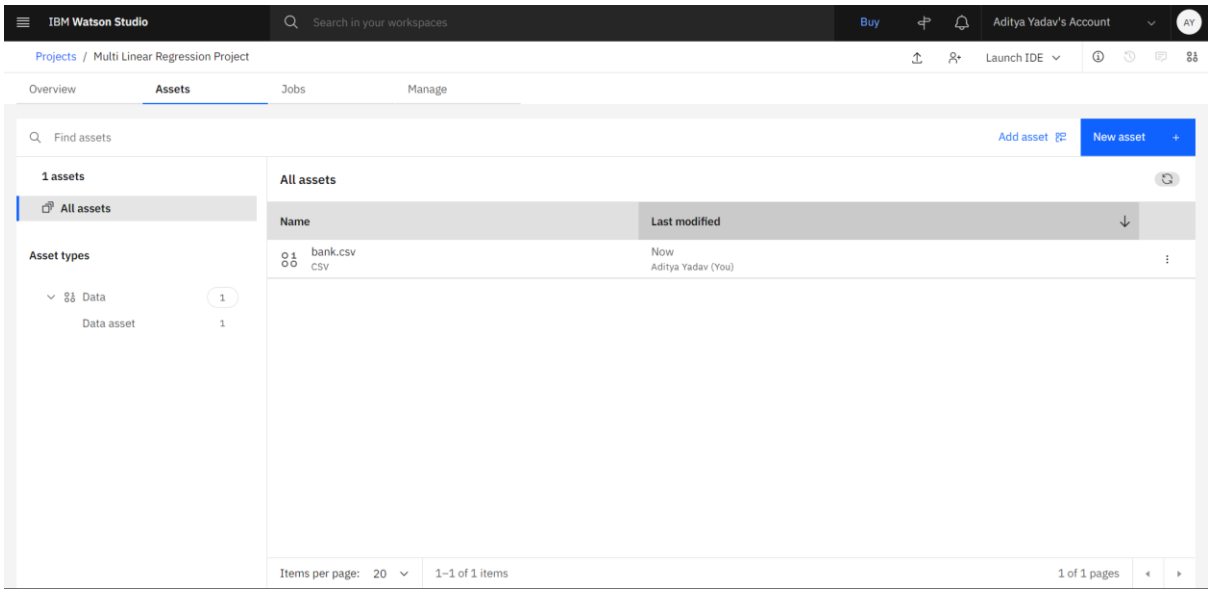


Fig: create new project and add dataset in the asset.

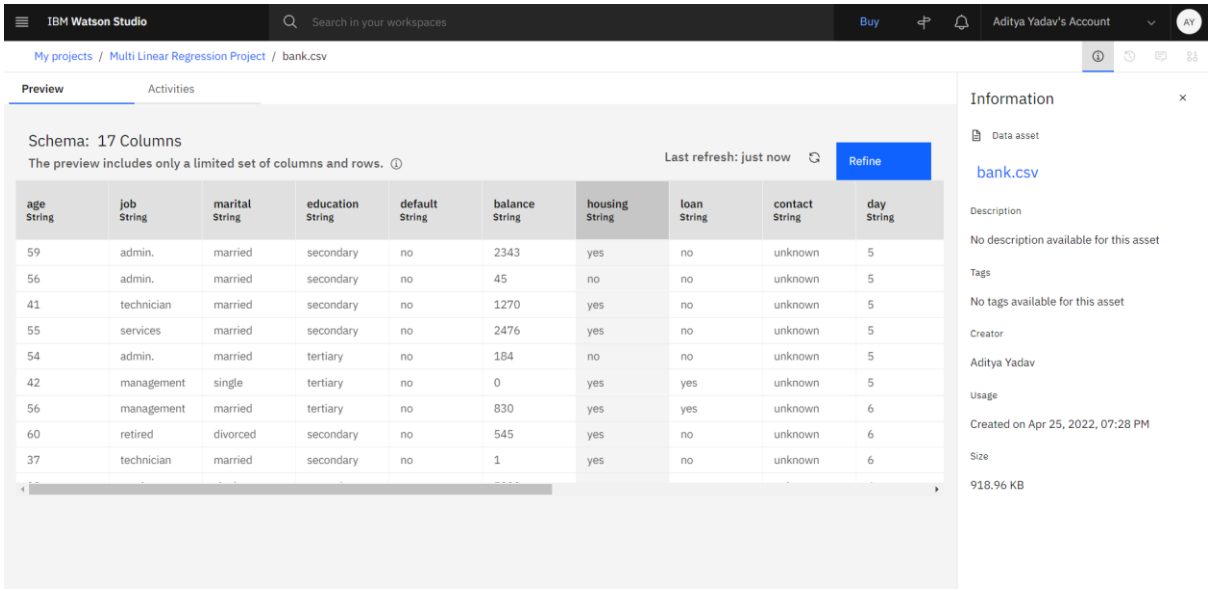


Fig: descriptive view of the dataset.

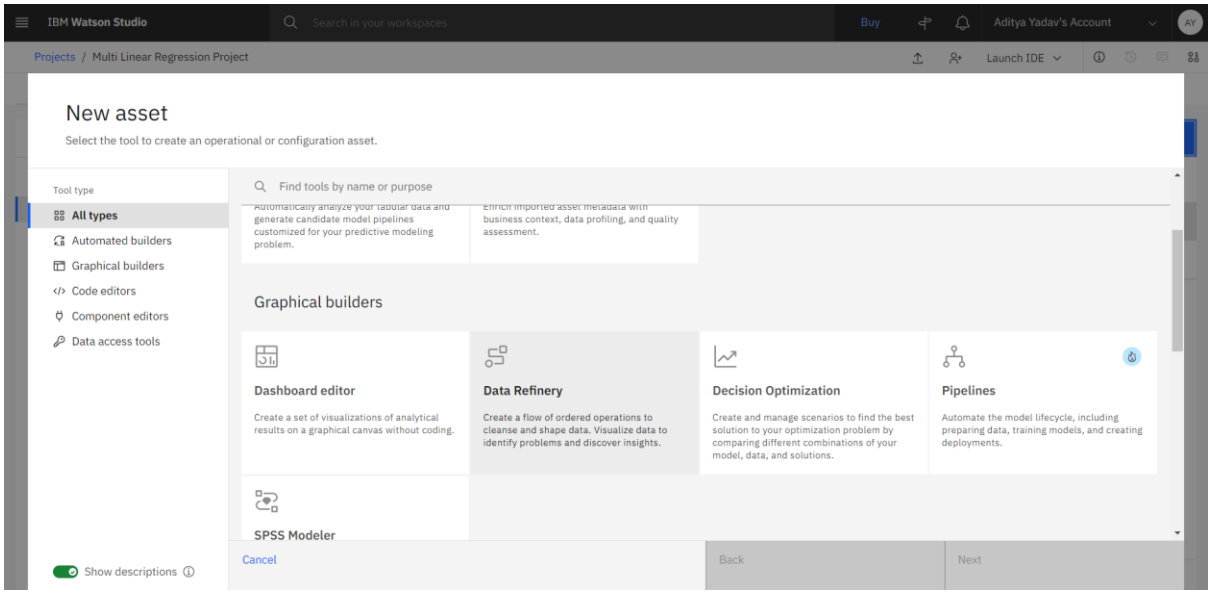


Fig: add new data asset for data refinery

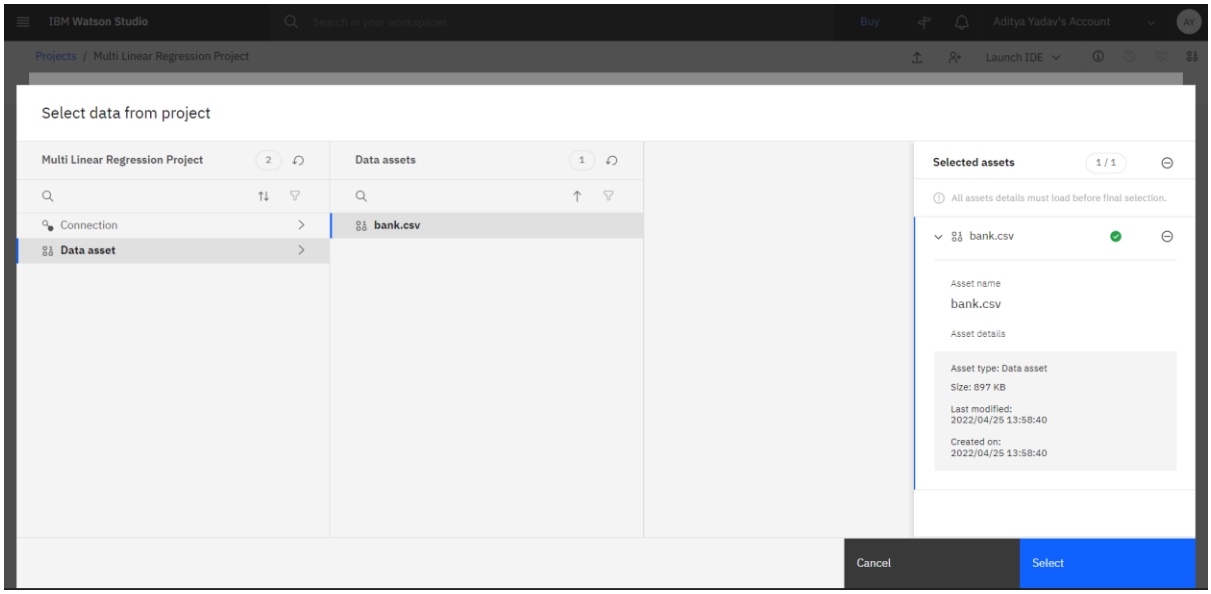


Fig: select dataset to be refined.

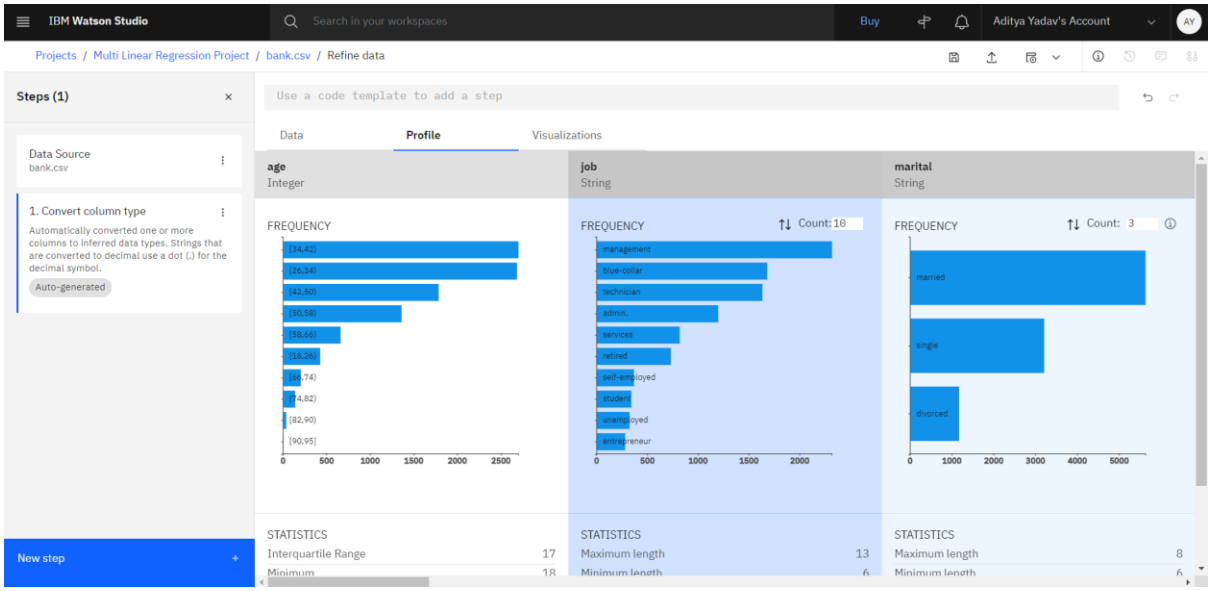


Fig: generate profile for our dataset

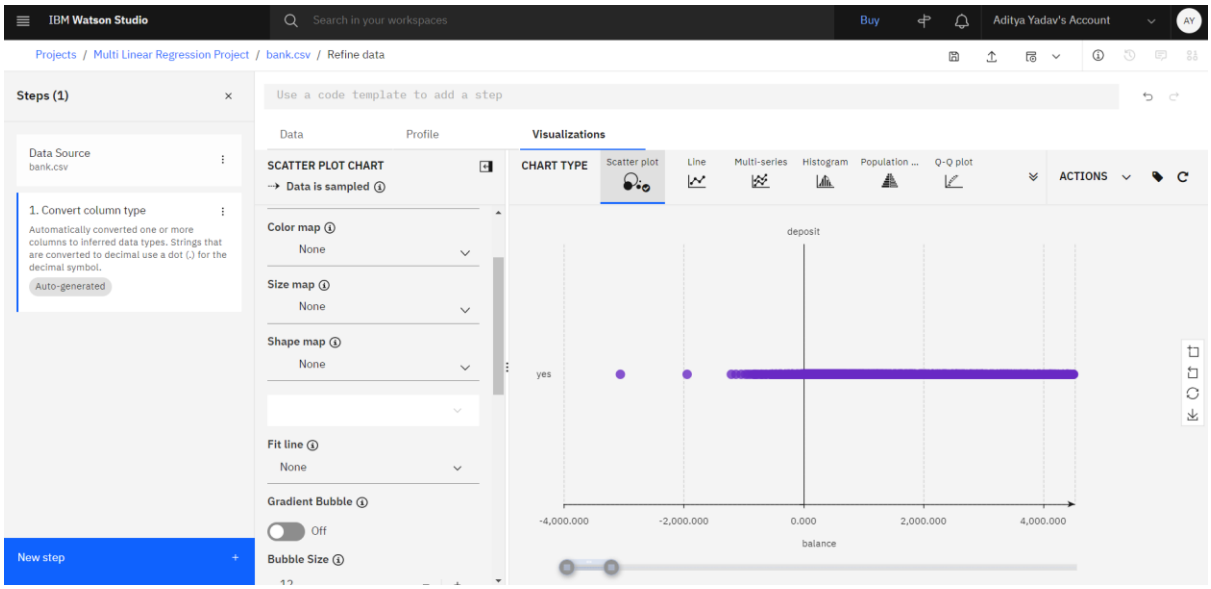


Fig: scatter plot your data.

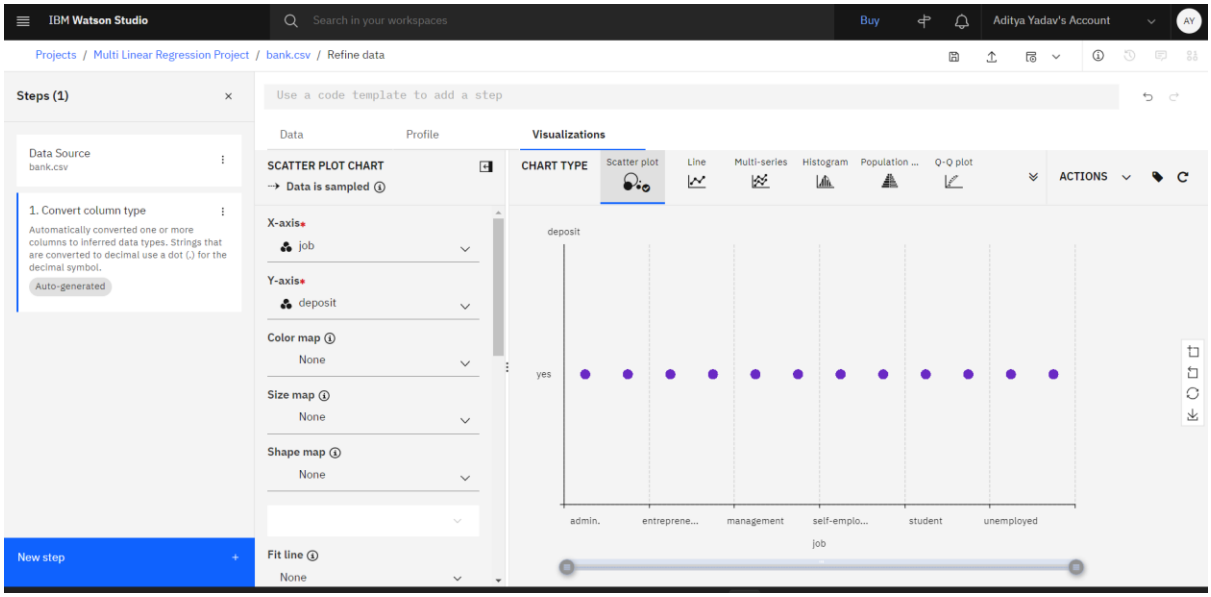


Fig: scatter-plot with job

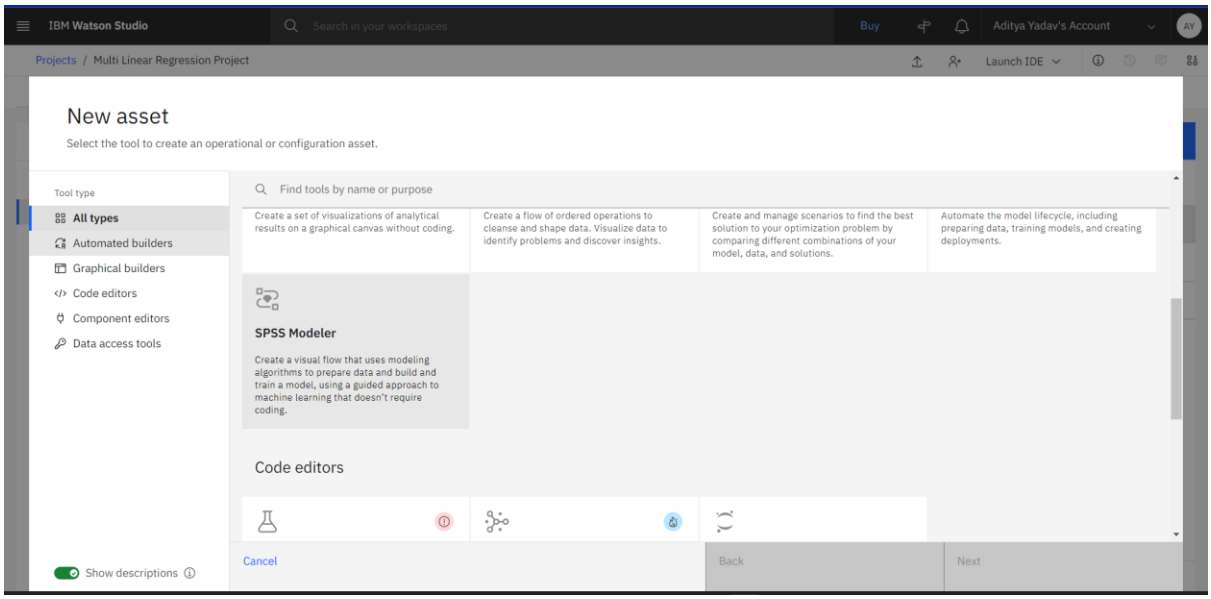


Fig: Create a SPSS modeler

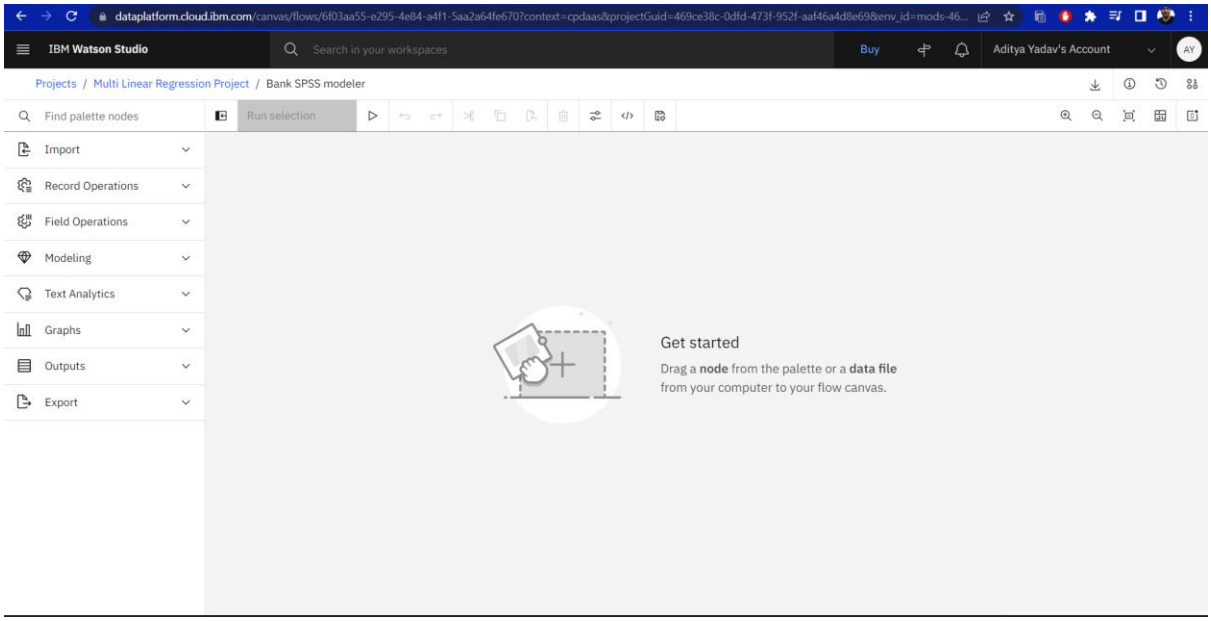


Fig: create a workspace

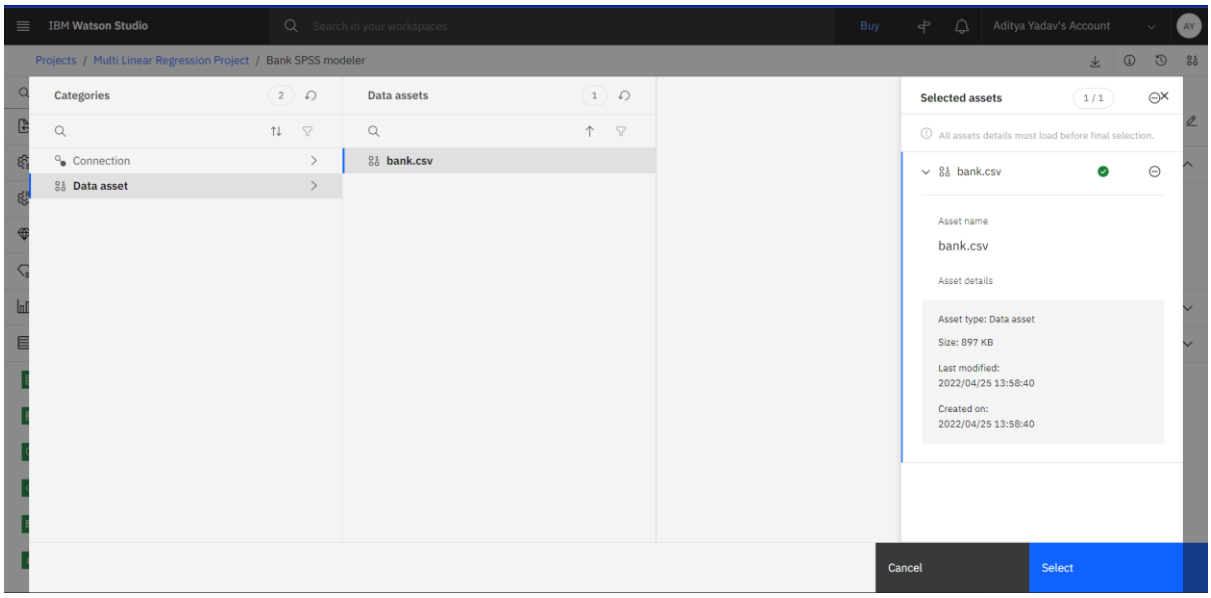


Fig: connect data set to the data asset.

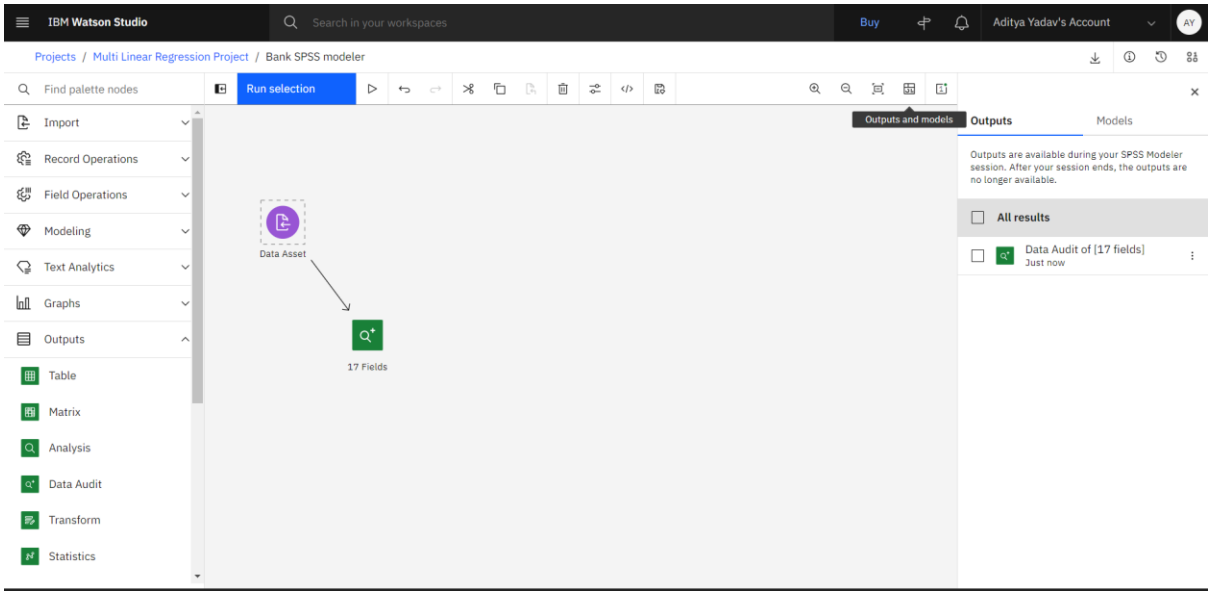
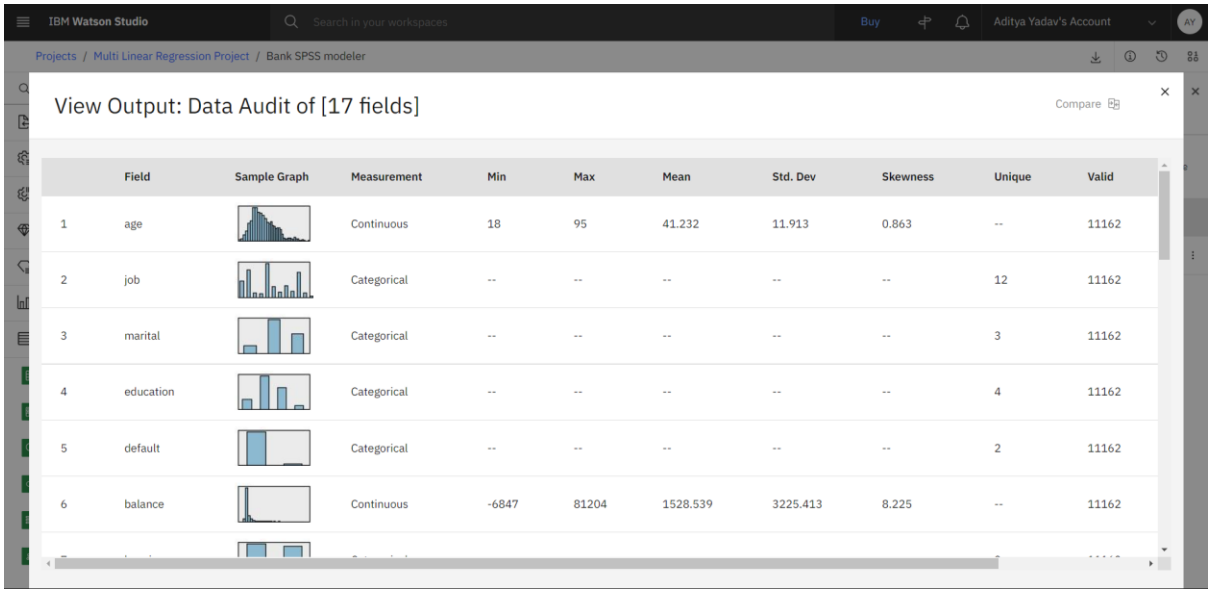


Fig: connect with data audit



	Field	Sample Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	age		Continuous	18	95	41.232	11.913	0.863	--	11162
2	job		Categorical	--	--	--	--	--	12	11162
3	marital		Categorical	--	--	--	--	--	3	11162
4	education		Categorical	--	--	--	--	--	4	11162
5	default		Categorical	--	--	--	--	--	2	11162
6	balance		Continuous	-6847	81204	1528.539	3225.413	8.225	--	11162

Fig: Data audit output.

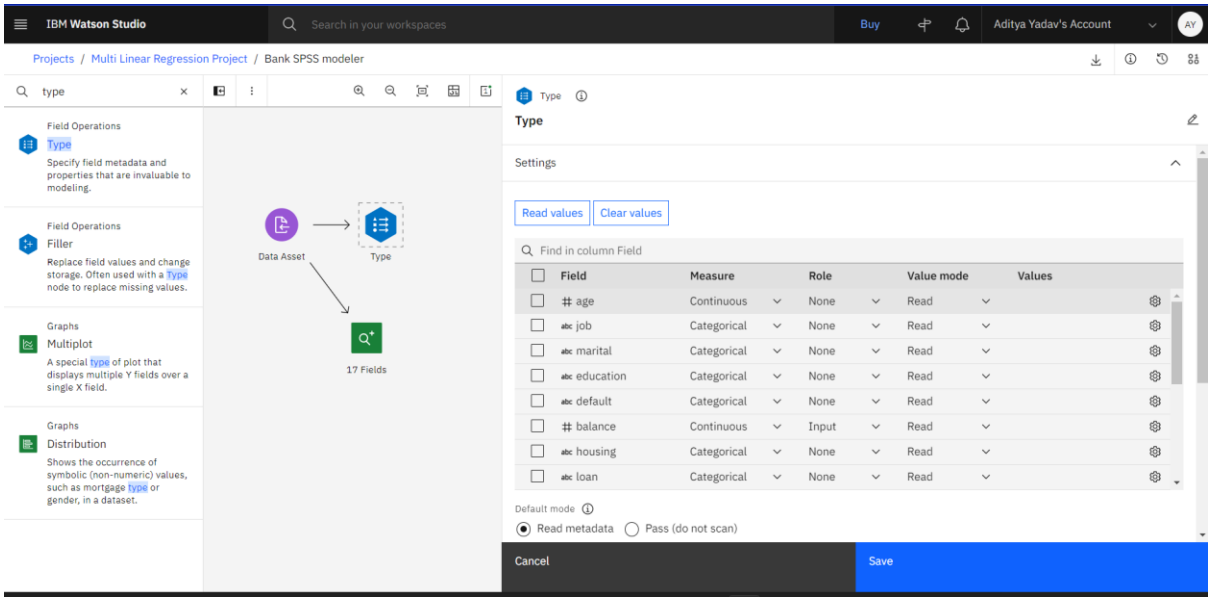


Fig: add and update type node

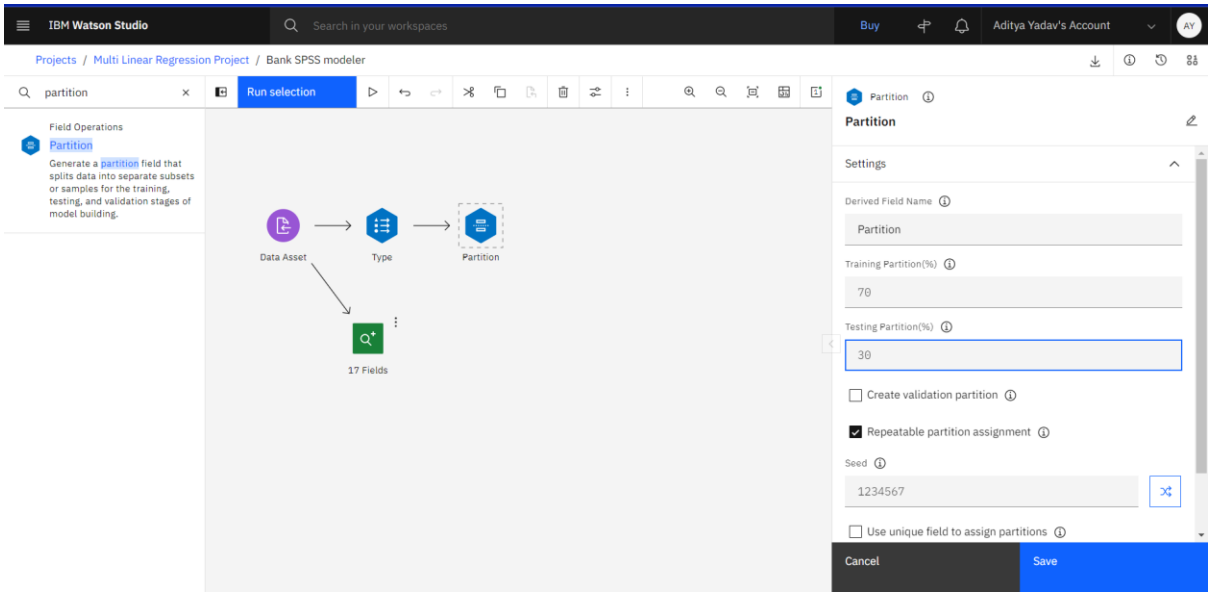


Fig: add partition and update training and testing data.

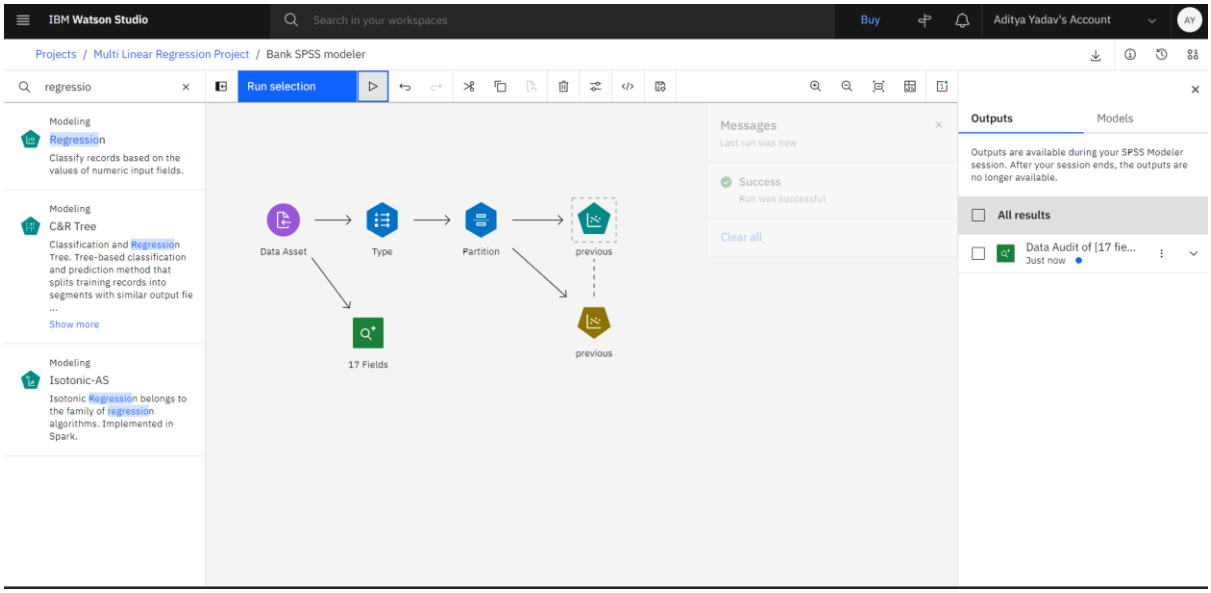
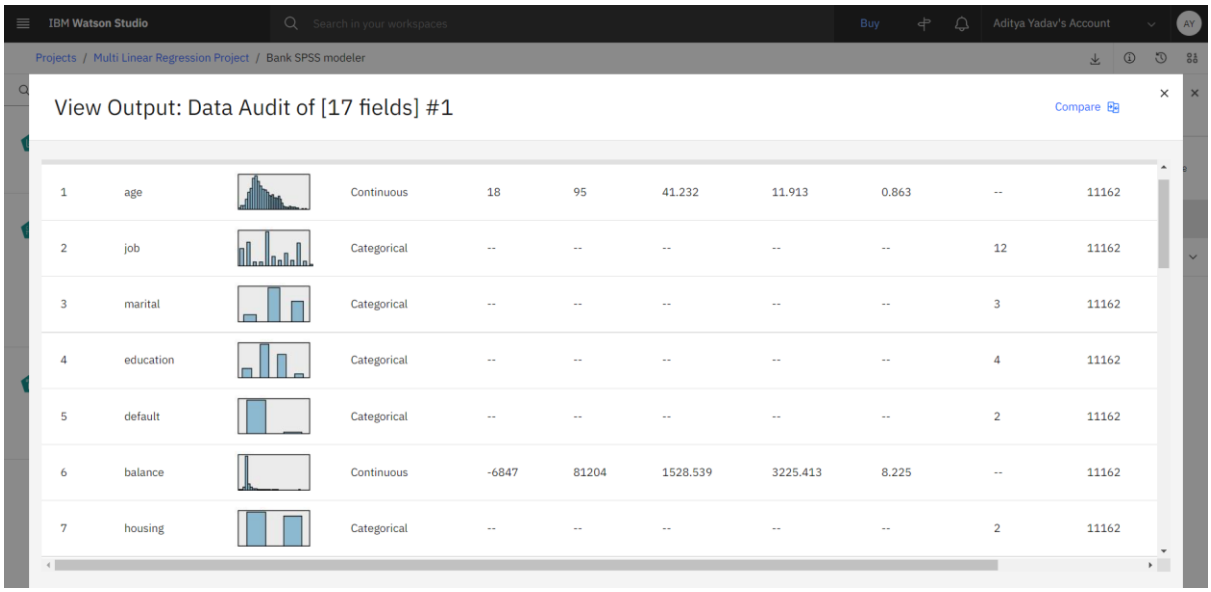


Fig: perform regression modelling.



1	age		Continuous	18	95	41.232	11.913	0.863	--	11162
2	job		Categorical	--	--	--	--	--	12	11162
3	marital		Categorical	--	--	--	--	--	3	11162
4	education		Categorical	--	--	--	--	--	4	11162
5	default		Categorical	--	--	--	--	--	2	11162
6	balance		Continuous	-6847	81204	1528.539	3225.413	8.225	--	11162
7	housing		Categorical	--	--	--	--	--	2	11162

Fig: get the output of regression model.

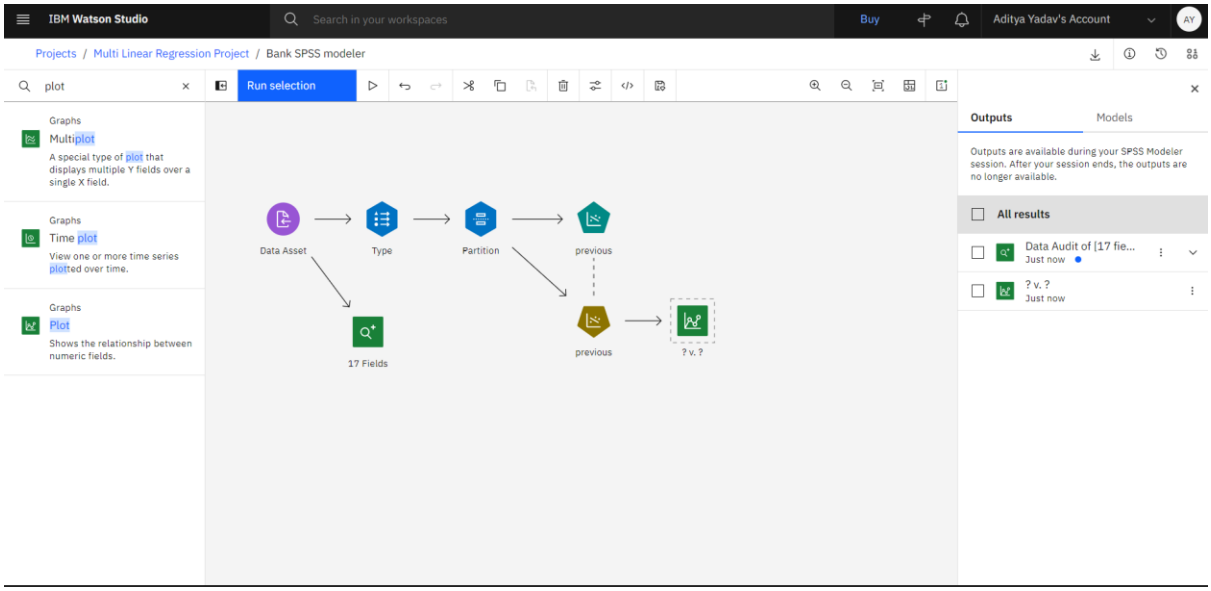


Fig: Add plot node

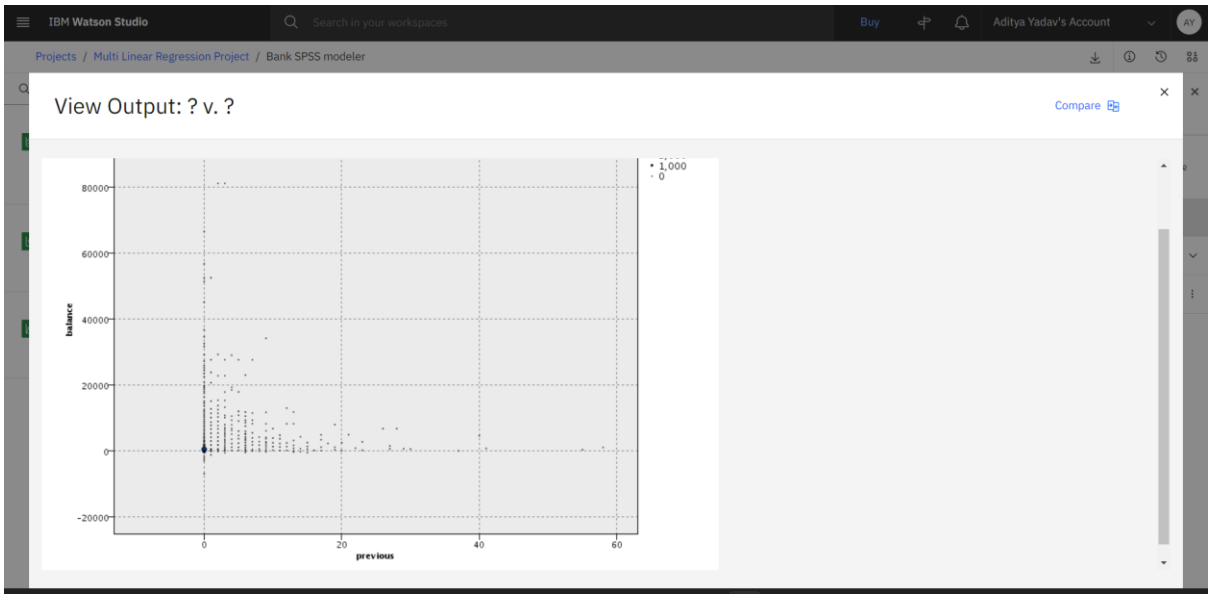


Fig: view the graph