Data Analytics

Assignment-2

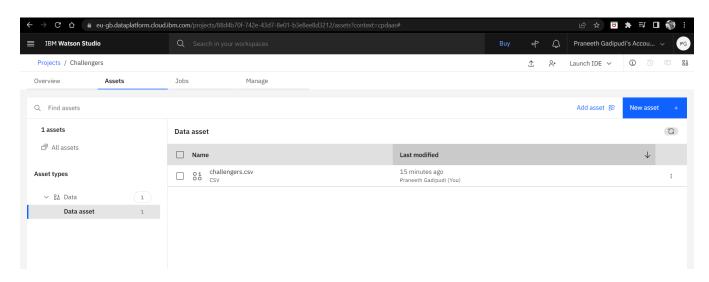
Name: G.Naga Sai Praneeth

Regd.No:19MIM10044

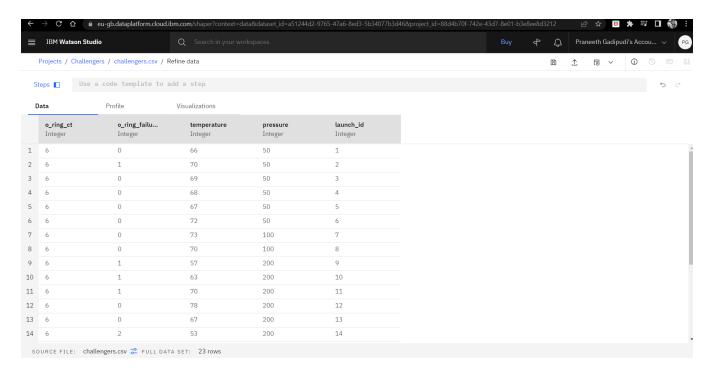
Risk Analysis using Multiple Linear Regression

Dataset: Challengers.csv

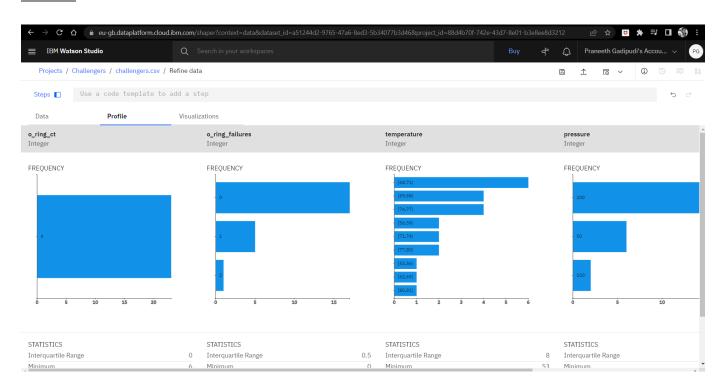
Create Project:



Create Data Refinery and add dataset:

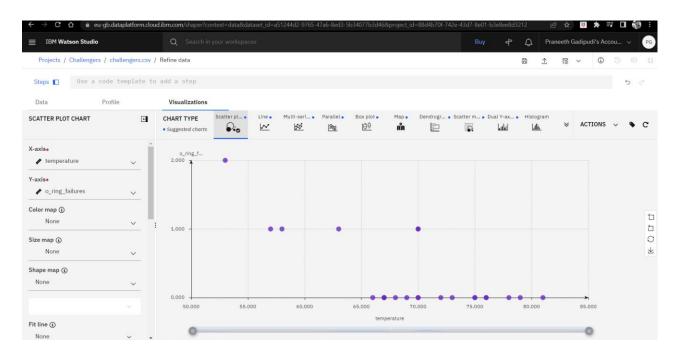


Profile:

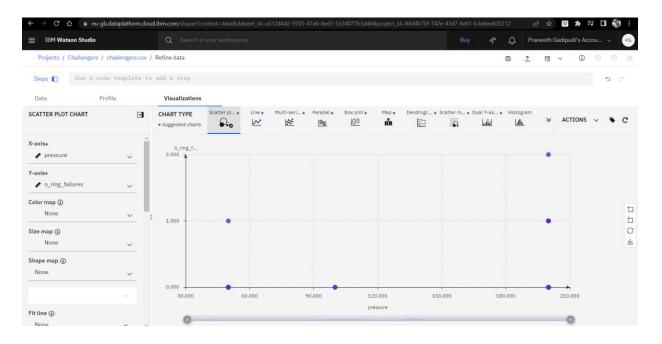


Visualization:

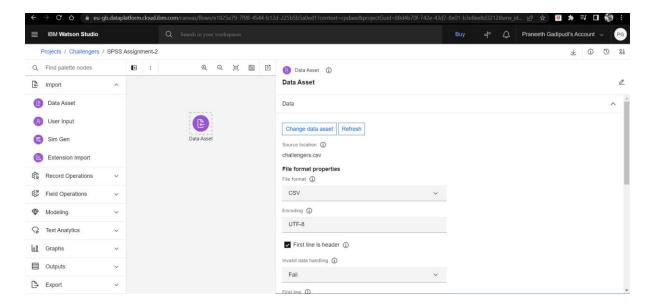
Scatter Plot of temp vs o ring failures



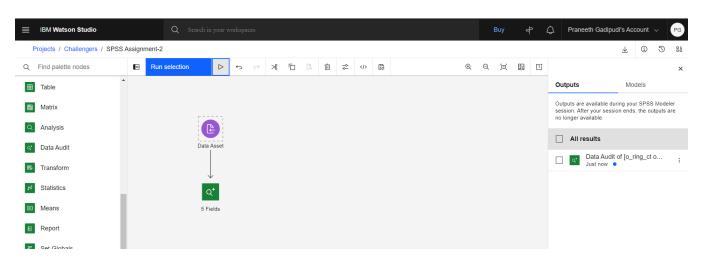
Pressure vs o ring failures:



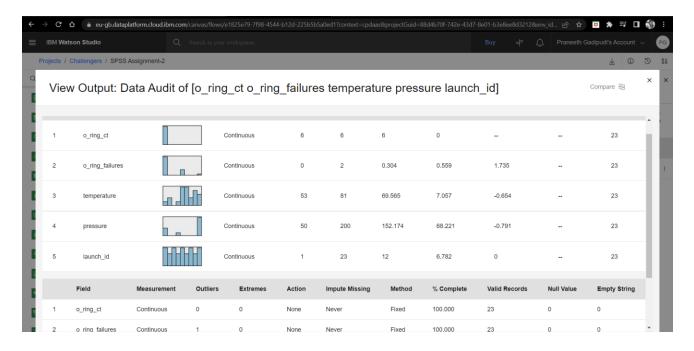
Create a SPSS Modeler and add dataset:



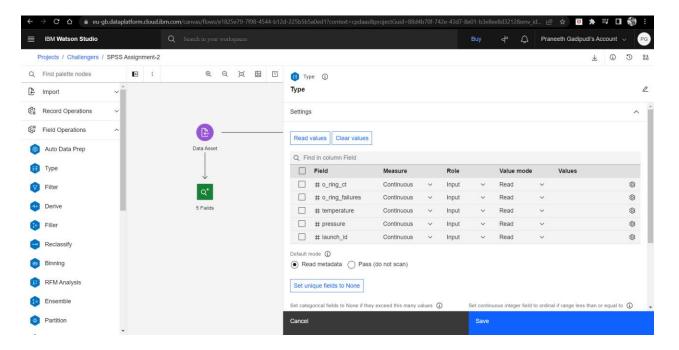
Create Data Audit:



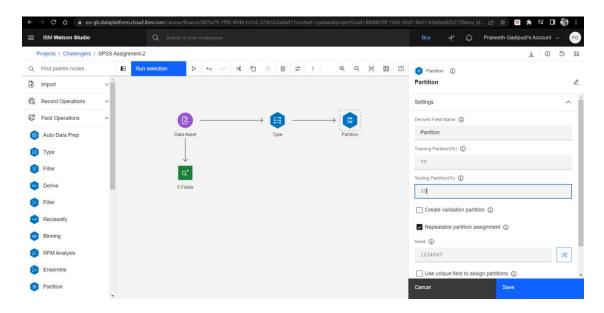
Output Data Audit:



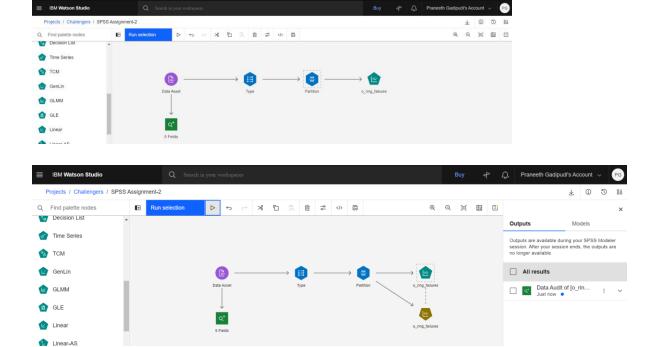
Type Node:



Partition Node:



Creating a Regression Model:



Output:

View Model: o_ring_failures

Regression

EVALUATION

Model Summary

ANOVA

Coefficients

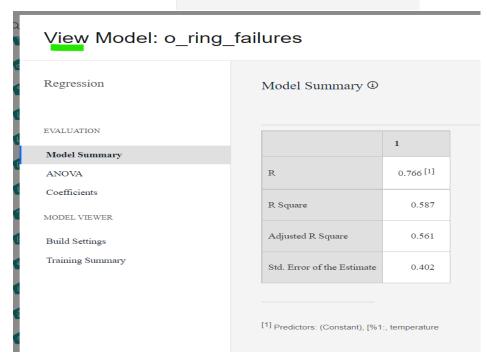
MODEL VIEWER

Build Settings

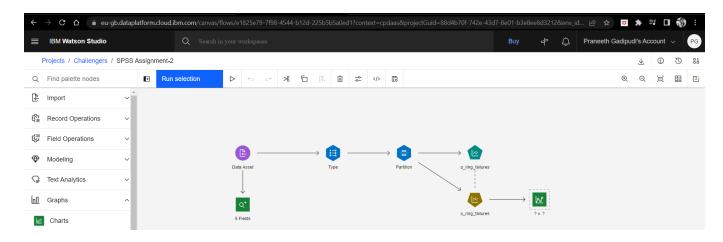
Training Summary

ANOVA ①

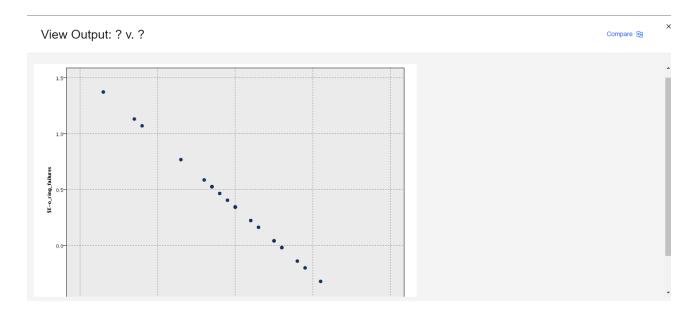
	1		
	Regression	Residual	Total
Sum of Squares	3.686	2.592	6.278
df	1.000	16.000	17.000
Mean Square	3.686	0.162	
F	22.758		
Sig.	0.000		



Plot Node:



2D-Output:



3D Output:

