PROJECT DEVELOPMENT PHASE

PHASE MODEL

PERFORMANCE TESTING

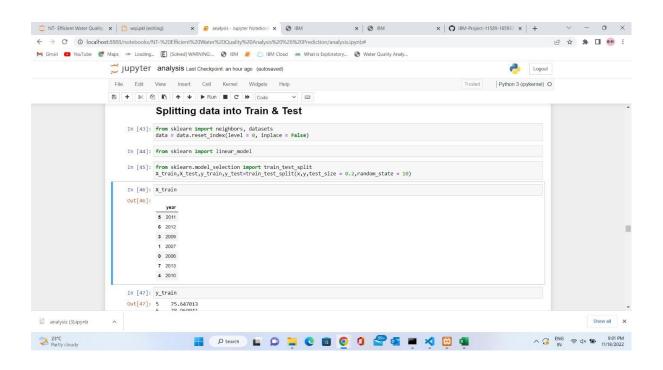
Date	10 November 2022	
Team ID	PNT2022TMID38102	
Project Name	Efficient Water Quality analysis&prediction	
	using Machine learning	
Maximum Marks	10Marks	

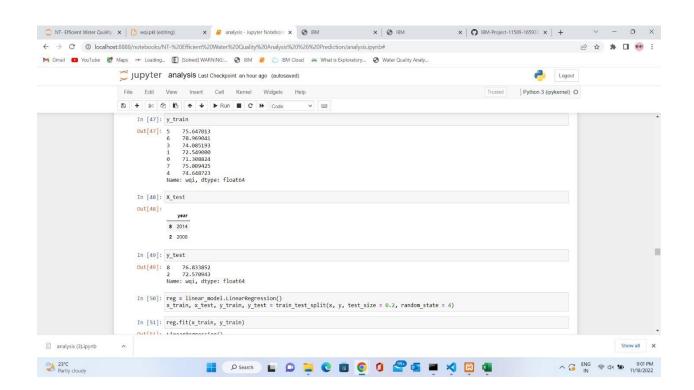
MODEL PERFORMANCE TESTING

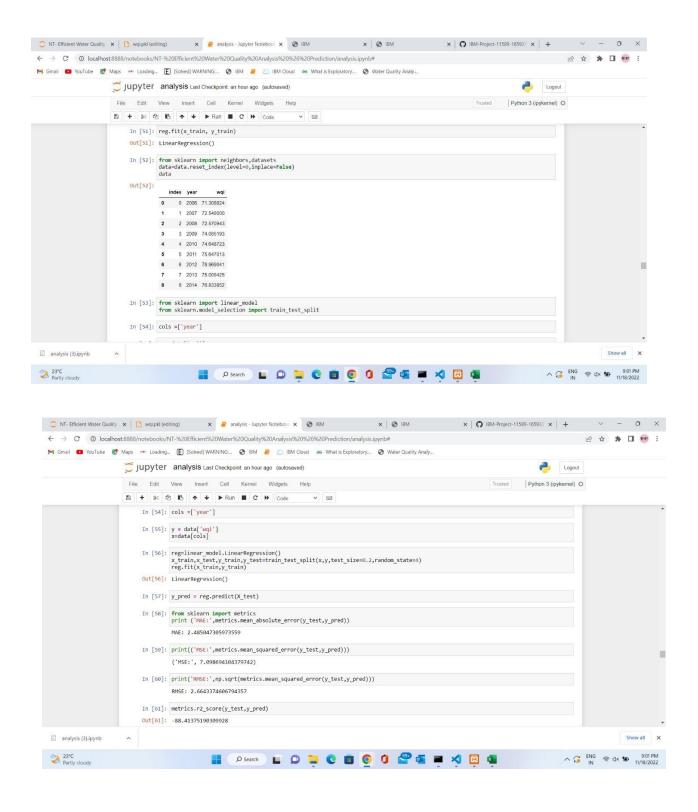
Project team shall fill the following information in model performance testing template.

S.NO	PARAMETERS	VALUES	SCREEN SHOT
1	METRICS	Regression model MAE - ,MSE-,RMSE-, R2score- Classification model Confusion Matrix - , Accuray Score-& ClassificationReport	Shown below
2.	Tune theModel	Hyperparameter Tuning - ValidationMethod -	Shown Below

1. METRICS:LINEAR REGRESSION





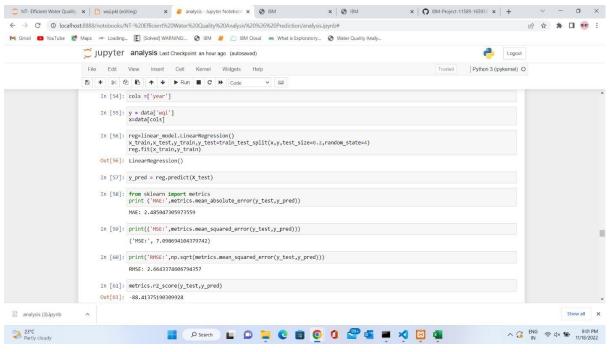


2. TUNE THE MODEL:

HYPERPARAMETER TUNING

- The number of features is important and should be tuned in linear regression
- Initially all parameters in the dataset are taken as independent values to arrive at the dependent decision of Exploratory Analysis of Water Quality Prediction
- But the result was not accurate so used only 8 more correlated values as independent values to arrive at the dependent decision of Exploratory Analysis of Water Quality Prediction.

VALIDATION METHOD:



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