

USER ACCEPTANCE

UAT Execution & Report Submission

Date	03 November 2022
Team ID	PNT2022TMID29722
Project Name	Efficient Water Quality Analysis & Prediction using Machine learning
Maximum Marks	4 Marks

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

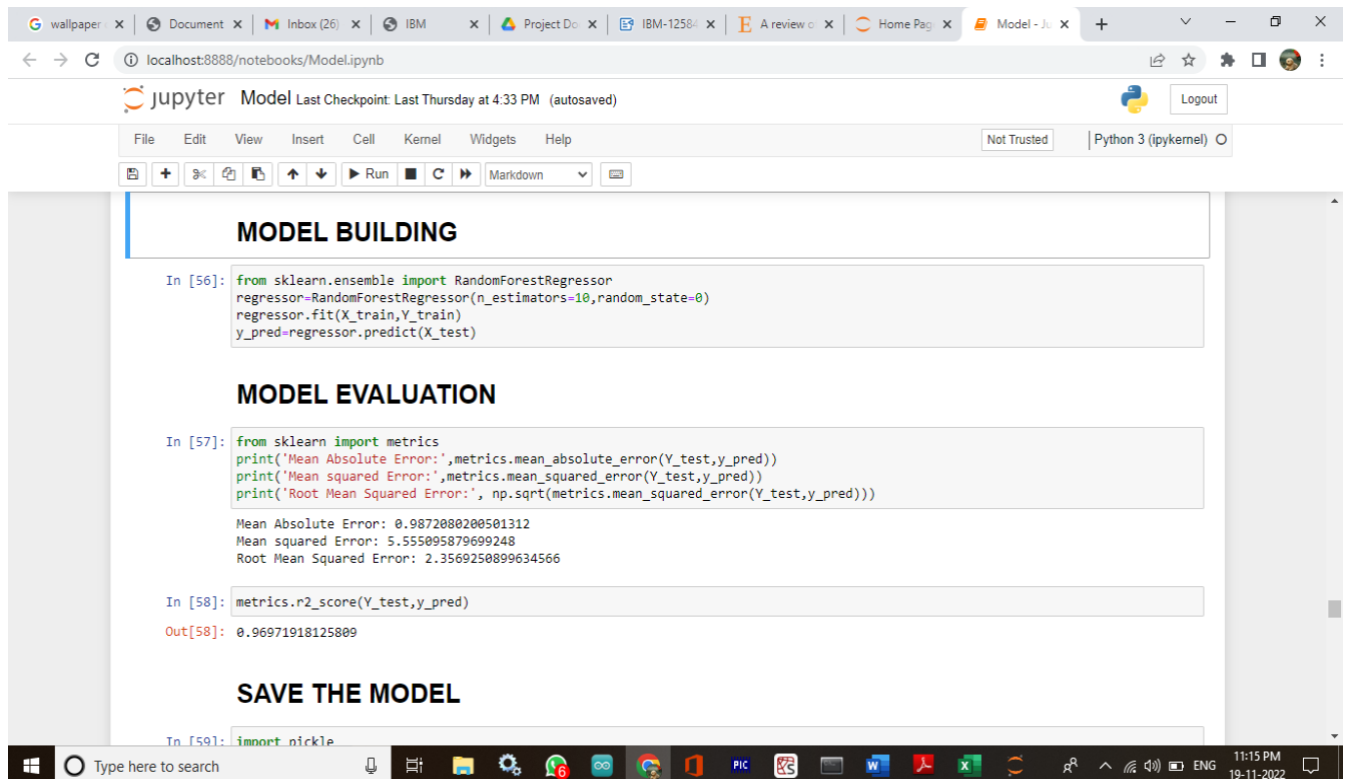
Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	9	3	1	0	13
Duplicate	1	3	1	0	5
External	2	3	0	1	6
Fixed	8	2	4	15	29
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	4	2	1	7
Totals	22	13	12	26	73

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	45	0	0	45
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

PREDICTION RESULTS:



The screenshot displays a Jupyter Notebook interface with the following content:

- MODEL BUILDING**
In [56]: `from sklearn.ensemble import RandomForestRegressor
regressor=RandomForestRegressor(n_estimators=10,random_state=0)
regressor.fit(X_train,Y_train)
y_pred=regressor.predict(X_test)`
- MODEL EVALUATION**
In [57]: `from sklearn import metrics
print('Mean Absolute Error:',metrics.mean_absolute_error(Y_test,y_pred))
print('Mean squared Error:',metrics.mean_squared_error(Y_test,y_pred))
print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(Y_test,y_pred)))`
Output:
Mean Absolute Error: 0.9872080200501312
Mean squared Error: 5.555095879699248
Root Mean Squared Error: 2.3569250899634566
In [58]: `metrics.r2_score(Y_test,y_pred)`
Out[58]: 0.96971918125809
- SAVE THE MODEL**
In [59]: `import pickle`