Project Development Phase
Model Performance Test

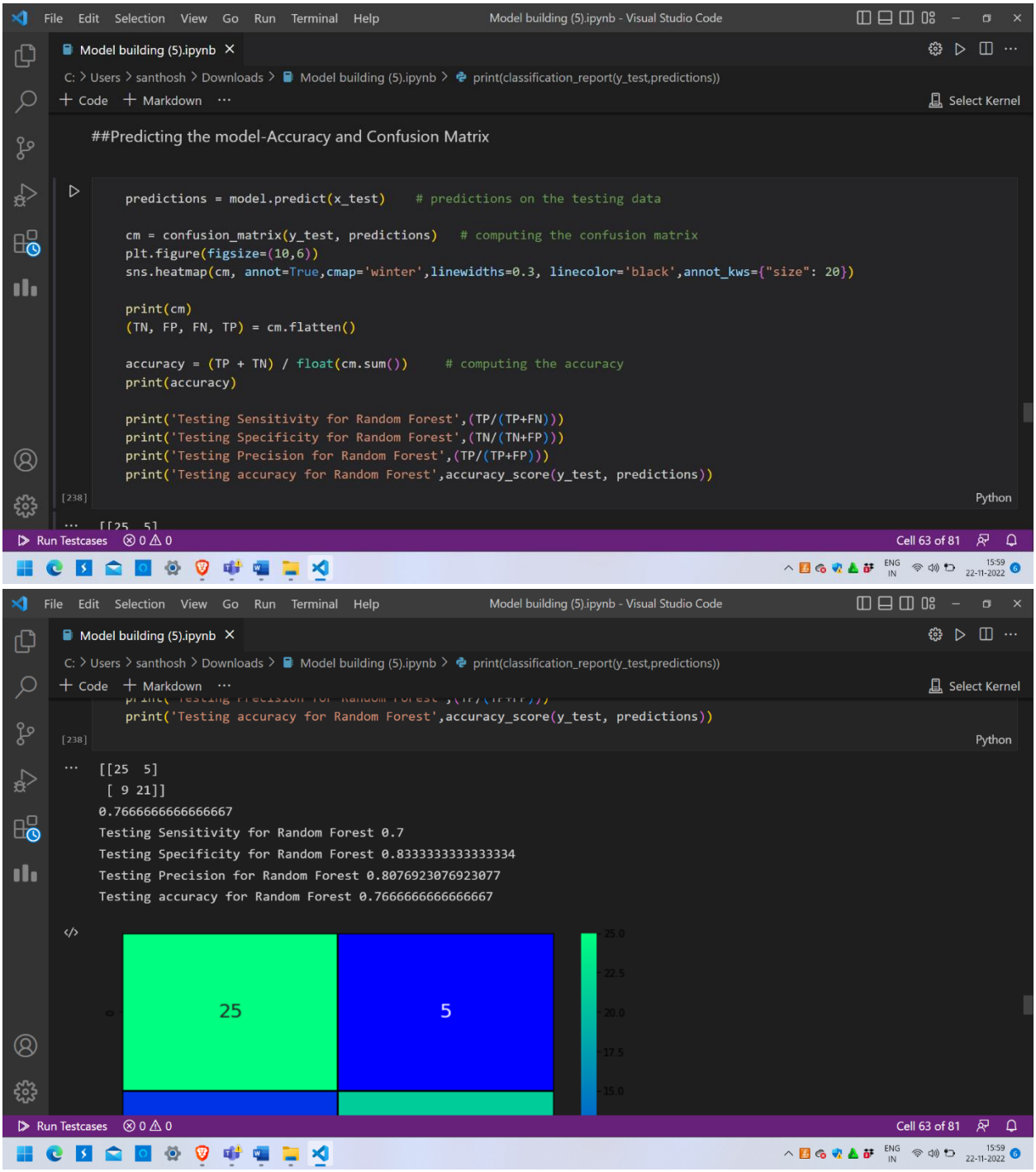
Date	22 NOVEMBER 2022
Team ID	PNT2022TMID39601
Project Name	Detecting Parkinson's Disease using Machine Learning
Maximum Marks	10 Marks

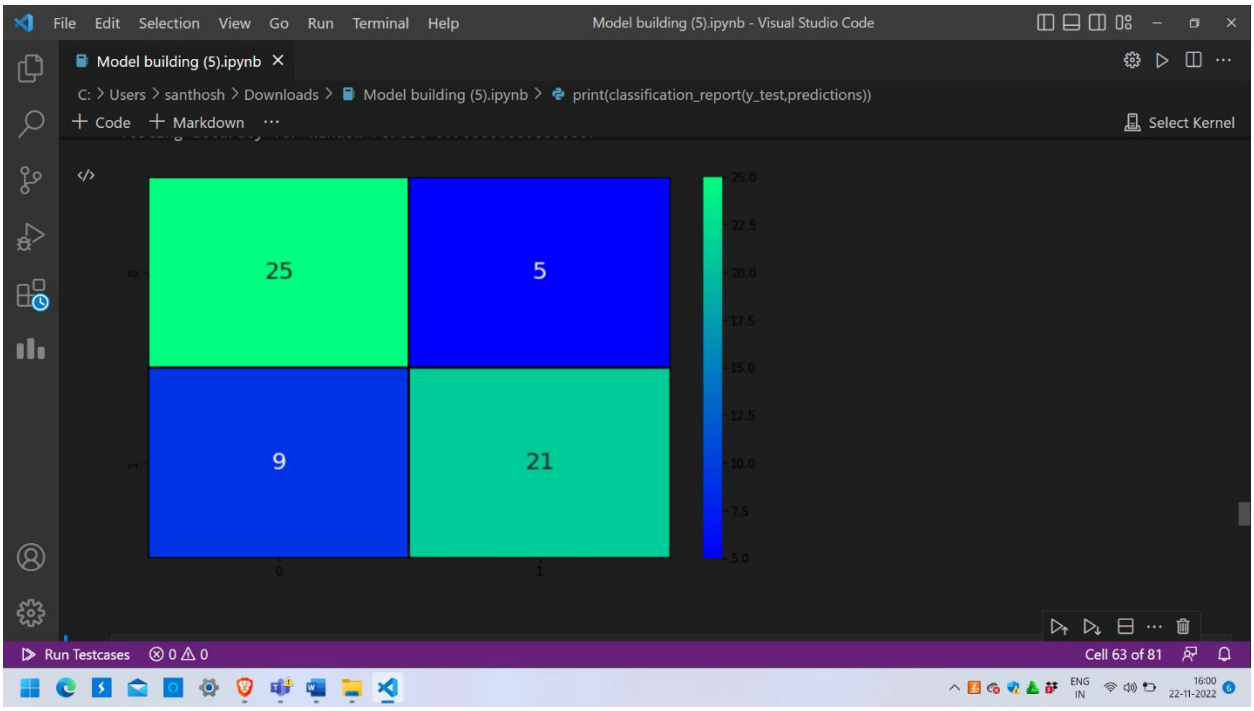
Model Performance Testing:

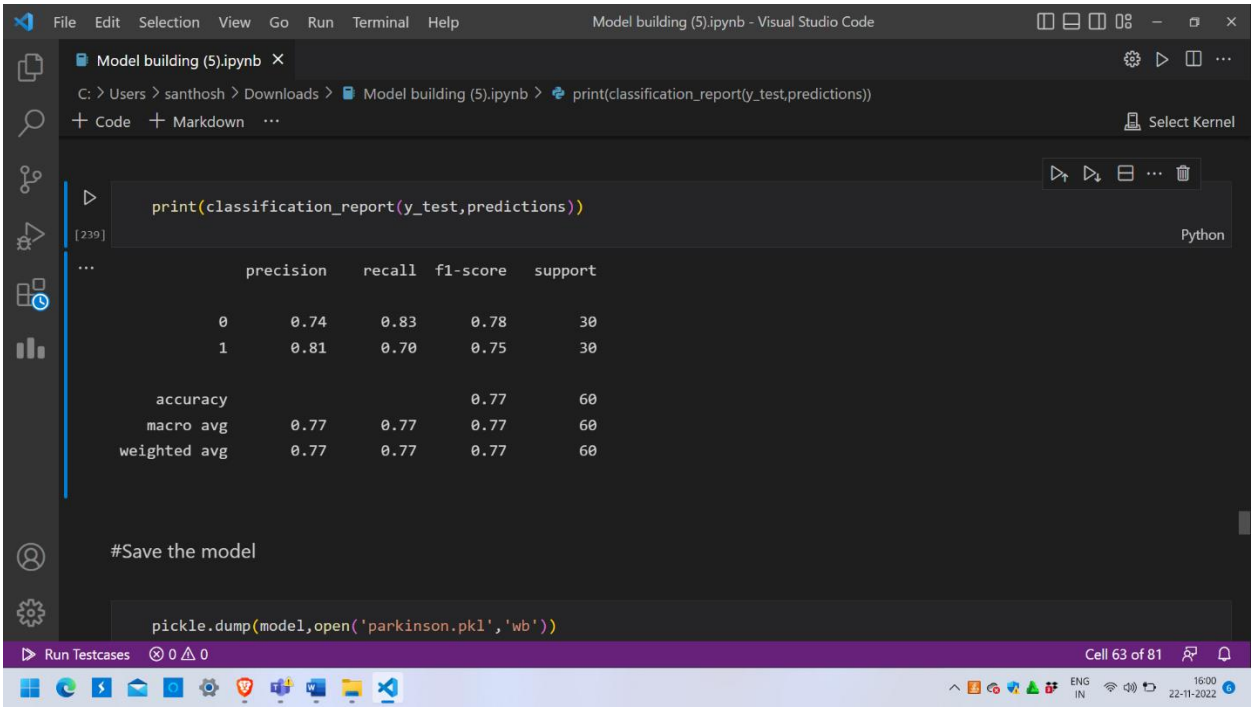
Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** Confusion Matrix – [[25 5][9 21]] Accuracy Score 0.7666666666666667& Classification Report – precision recall f1-score support 0 0.74 0.83 0.78 30 1 0.81 0.70 0.75 30 accuracy 0.77 60 macro avg 0.77 0.77 0.77 60 weighted avg 0.77 0.77 0.77 60	Screenshot 1
2.	Tune the Model	Hyperparameter Tuning - Nil Validation Method – Split Data Validation	Screenshot 2

Screenshot 1:




File Edit Selection View Go Run Terminal Help
Model building (5).ipynb - Visual Studio Code
Model building (5).ipynb
C: > Users > santhosh > Downloads > Model building (5).ipynb > print(classification_report(y_test,predictions))
+ Code + Markdown ···
Select Kernel
25
5
9
21
Run Testcases
Cell 63 of 81


File Edit Selection View Go Run Terminal Help
Model building (5).ipynb - Visual Studio Code
Model building (5).ipynb
C: > Users > santhosh > Downloads > Model building (5).ipynb > print(classification_report(y_test,predictions))
+ Code + Markdown ···
Select Kernel
print(classification_report(y_test,predictions))
[239]
Python
precision recall f1-score support
0 0.74 0.83 0.78 30
1 0.81 0.70 0.75 30
accuracy 0.77 60
macro avg 0.77 0.77 0.77 60
weighted avg 0.77 0.77 0.77 60
#Save the model
pickle.dump(model,open('parkinson.pkl','wb'))
Run Testcases
Cell 63 of 81

Screenshot 2: