

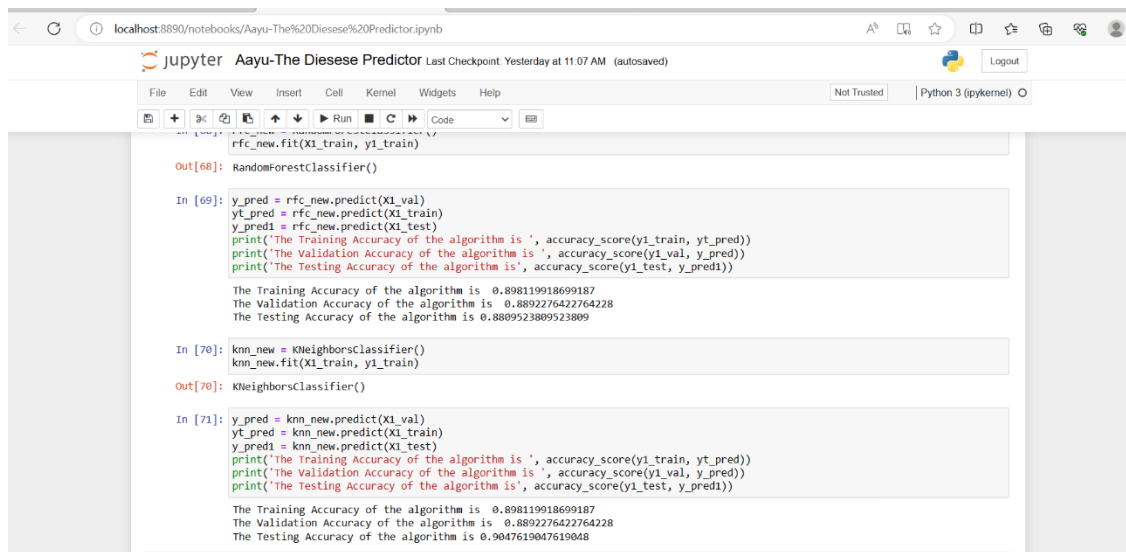
## Project Development Phase Model Performance Test

Date	09 November 2023
Team ID	592199
Project Name	Disease Prediction Using Machine Learning
Maximum Marks	10 Marks

### Model Performance Testing:

S.No.	Parameter	Values
1.	Accuracy	Training Accuracy – 93.23% Validation Accuracy – 95.31%

### Screenshot:



```
rfc_new.fit(X1_train, y1_train)

Out[68]: RandomForestClassifier()

In [69]: y_pred = rfc_new.predict(X1_val)
yt_pred = rfc_new.predict(X1_train)
y_pred1 = rfc_new.predict(X1_test)
print('The Training Accuracy of the algorithm is ', accuracy_score(y1_train, yt_pred))
print('The Validation Accuracy of the algorithm is ', accuracy_score(y1_val, y_pred))
print('The Testing Accuracy of the algorithm is', accuracy_score(y1_test, y_pred1))

The Training Accuracy of the algorithm is  0.898119918699187
The Validation Accuracy of the algorithm is  0.8892276422764228
The Testing Accuracy of the algorithm is 0.8809523809523809

In [70]: knn_new = KNeighborsClassifier()
knn_new.fit(X1_train, y1_train)

Out[70]: KNeighborsClassifier()

In [71]: y_pred = knn_new.predict(X1_val)
yt_pred = knn_new.predict(X1_train)
y_pred1 = knn_new.predict(X1_test)
print('The Training Accuracy of the algorithm is ', accuracy_score(y1_train, yt_pred))
print('The Validation Accuracy of the algorithm is ', accuracy_score(y1_val, y_pred))
print('The Testing Accuracy of the algorithm is', accuracy_score(y1_test, y_pred1))

The Training Accuracy of the algorithm is  0.898119918699187
The Validation Accuracy of the algorithm is  0.8892276422764228
The Testing Accuracy of the algorithm is 0.9047619047619048
```