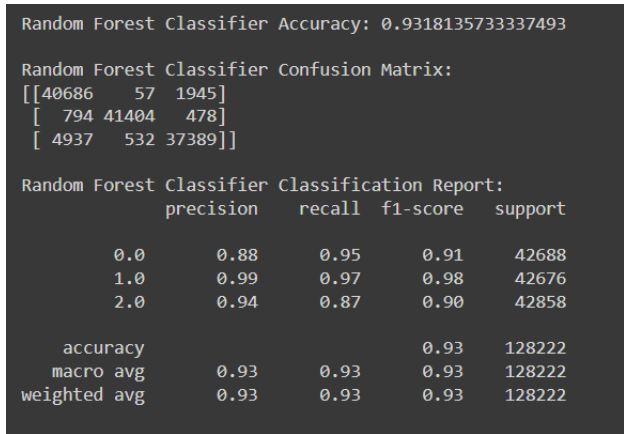


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	591964
Project Name	Diabetes Prediction 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.	Metric s	Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	 <pre> Random Forest Classifier Accuracy: 0.9318135733337493 Random Forest Classifier Confusion Matrix: [[40686 57 1945] [794 41404 478] [4937 532 37389]] Random Forest Classifier Classification Report: precision recall f1-score support 0.0 0.88 0.95 0.91 42688 1.0 0.99 0.97 0.98 42676 2.0 0.94 0.87 0.90 42858 accuracy 0.93 macro avg 0.93 weighted avg 0.93 </pre>

2.	Tune the Model	Hyperparameter Tuning - Validation Method -	<div>Mean Accuracy: 0.9318415433177437 Standard Deviation of Accuracy: 0.0005816098448275476</div>
----	----------------	---	--

```
warnings.warn(  
Best parameters: {'n_estimators': 100, 'min_samples_split': 3, 'min_samples_leaf': 2, 'max_depth': None}  
Best cross-validation score: 0.92  
Test set accuracy: 0.93
```