

## Project Development Phase Model Performance Test

Date	9th November 2022
Team ID	Team-592607
Project Name	Diabetes Prediction Using Machine Learning
Maximum Marks	10 Marks

**Team Member:** AS. Vikram Aditya

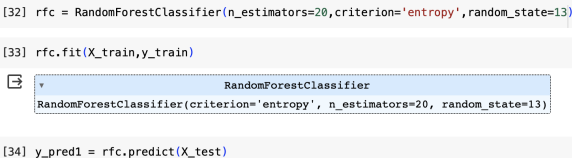
**Team Member:** PVS. Uday Kiran

**Team Member:** K. Rami Reddy

**Team Leader:** L. Mohith

### Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p><b>Regression Model:</b> MAE, MSE , RMSE , R2 score</p> <p><b>Classification Model:</b> Confusion Matrix, Accuray Score &amp; Classification Report</p>	 <p><b>Regression Model:</b></p> <pre> [32] rfc = RandomForestClassifier(n_estimators=20,criterion='entropy',random_state=13) [33] rfc.fit(X_train,y_train) [34] y_pred1 = rfc.predict(X_test)  from sklearn.svm import SVC from sklearn.datasets import make_classification from sklearn.pipeline import Pipeline from sklearn.metrics import mean_absolute_error from sklearn.metrics import mean_squared_error from sklearn.metrics import r2_score  [53] MAE = mean_absolute_error(y_test,y_pred1) MAE.round(2) 0.12  [54] MSE = mean_squared_error(y_test,y_pred1) MSE.round(2) 0.23  [55] RMSE = MSE**(1/2) RMSE.round(2) 0.48  [56] R2 = r2_score(y_test,y_pred1) R2 0.654524878682704 </pre> <p><b>Classification Model:</b></p>

