Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID12915
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board
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.	Model Summary	'bootstrap': True,
		'ccp_alpha': 0.0,
		'class_weight': None,
		'criterion': 'gini',
		'max_depth': None,
		'max_features': 'auto',
		'max_leaf_nodes': None,
		'max_samples': None,
		'min_impurity_decrease': 0.0,
		'min_samples_leaf': 1,
		'min_samples_split': 2,
		'min_weight_fraction_leaf': 0.0,
		'n_estimators': 100,
		'n_jobs': None,
		'oob_score': False,
		'random_state': None,
		'verbose': 0,
		'warm_start': False
			`rf = RandomForestClassifier()`
			`rf.fit(X_train,y_train)`
			`RandomForestClassifier()`
			`rf.get_params()`
			`{'bootstrap': True, 'ccp_alpha': 0.0, 'class_weight': None, 'criterion': 'gini', 'max_depth': None, 'max_features': 'auto', 'max_leaf_nodes': None, 'max_samples': None, 'min_impurity_decrease': 0.0, 'min_samples_leaf': 1, 'min_samples_split': 2, 'min_weight_fraction_leaf': 0.0, 'n_estimators': 100, 'n_jobs': None, 'oob_score': False, 'random_state': None, 'verbose': 0, 'warm_start': False}`

2.	Accuracy	Training Accuracy - 1
		
		Validation Accuracy – 0.81481
			`y_train_pred = rf.predict(X_train)`
			`print("Accuracy Score for Training = {}".format(round(accuracy_score(y_train, y_train_pred))))`
			`Accuracy Score for Training = 1`
			`pred = rf.predict(X_test)`
			`print("Accuracy Score for Testing = {}".format(round(accuracy_score(y_test,pred),5)))`
			`Accuracy Score for Testing = 0.81481`