Project Development Phase Model Performance Test

Date	20 NOvember 2022	
Team ID	591645	
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.	Metrics	Regression Model: MAE - 0.1725 , MSE - 0.1725 , RMSE - 0.4153311931459037, R2 score - 0.2072610294117646 Classification Model: Confusion Matrix - [[239 33] [36 92]], Accuray Score- & Classification Report - 0.8275 precision recall f1-score support 0 0.87 0.88 0.87 272 1 0.74 0.72 0.73 128 accuracy 0.83 400 macro avg 0.80 0.80 0.80 400 weighted avg 0.83 0.83 0.83 400	# Regression Model Evaluation Metrics mae = mean_absolute_error(y_test, knn_y_pred) mse = mean_squared_error(y_test, knn_y_pred) rmse = np.sqrt(mse) r2 = r2_score(y_test, knn_y_pred) print("Regression Model Metrics (KNN):") print("MSE:", mae) print("MSE:", mse) print("MSE:", rmse) print("RSE:", rmse) print("RSE:", rmse) print("RS Score: 0.2072510294117646 NSE: 0.1725 RSSE: 0.4153311931459037 R2 Score: 0.2072510294117646 Nn_cm = confusion_matrix(y_test, knn_y_pred) print("Confusion Matrix (KNN):") print("Confusion Matrix (KNN):") print("Confusion Matrix (KNN):") print("Accuracy Score (KNN):", accuracy, knn
			Classification Model Metrics (KINN): Confusion Matrix (KINN): [[239 33] [36 92]] Accuracy Score (KNN): 0.8275 Classification Report (KNN): precision recall f1-score support 0 0.87 0.88 0.87 272 1 0.74 0.72 0.73 128 accuracy 0.83 400 macro avg 0.80 0.80 0.80 400 weighted avg 0.83 0.83 0.83 400

