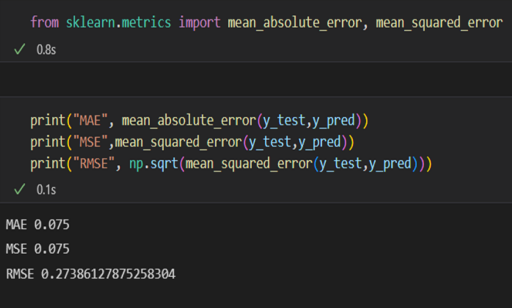
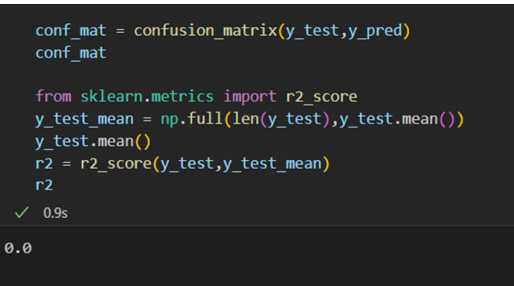
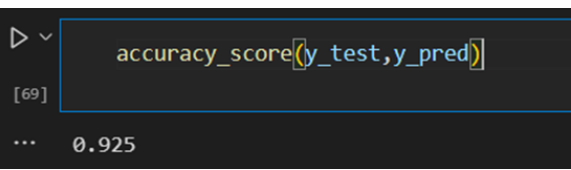


Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID42291
Project Name	Project - Early Detection of chronic kidney disease using machine learning
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p>Regression Model: MAE - , MSE - , RMSE - , R2 score -</p> <p>Classification Model: Confusion Matrix - , Accuracy Score- & Classification Report -</p>	 <pre>from sklearn.metrics import mean_absolute_error, mean_squared_error ✓ 0.8s print("MAE", mean_absolute_error(y_test,y_pred)) print("MSE",mean_squared_error(y_test,y_pred)) print("RMSE", np.sqrt(mean_squared_error(y_test,y_pred))) ✓ 0.1s MAE 0.075 MSE 0.075 RMSE 0.27386127875258304</pre>  <pre>conf_mat = confusion_matrix(y_test,y_pred) conf_mat from sklearn.metrics import r2_score y_test_mean = np.full(len(y_test),y_test.mean()) y_test.mean() r2 = r2_score(y_test,y_test_mean) r2 ✓ 0.9s 0.0</pre>  <pre>accuracy_score(y_test,y_pred) [69] ... 0.925</pre>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	Hyperparameters in Machine learning are those parameters that are explicitly defined by the user to control the learning process. One such important parameter used for hyper parameter tuning is n_estimators. In our model also we have used n_estimators for hyperparameter tuning

			<pre>conf_mat = confusion_matrix(y_test,y_pred) conf_mat</pre> <p>✓ 0.1s</p> <pre>array([[48, 6], [0, 26]], dtype=int64)</pre>
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