Project Development Phase Model Performance Test

Date	16 November 2022	
Team ID	Team-591602	
Project Name	FetalAI: USING MACHINE LEARNING TO PREDICT AND MONITOR FETAL HEALTH	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: MAE - 0.05 MSE - 0.05 RMSE - 0.24 R2 score - 0.83	After performing all the Regression Models we found the best model as Gradient Boosting Classifier with best MAE, MSE, RMSE, R2 Scores
		Tue label	print("MAE :",mean_absolute_error(y_test,y_pred)) print("MSE :",mean_squared_error(y_test,y_pred)) print("NMAE :",np.sqrt(mean_squared_error(y_test,y_pred)) print("R^2 :",r2_score(y_test,y_pred)) MAE : 0.047021943573667714 MSE : 0.05642633228840126 RMAE : 0.23754227473946876 R^2 : 0.8305957324403862 300 200 100
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	<pre>y_temp=pb_model.predict(x_test) print('PME on test set '",mean_absolute_error(y_temp,y_pred)) print('PME on test set '",mean_squared_error(y_temp,y_pred)) print('PMME on test set ':",pp.sqrt(mean_squared_error(y_temp,y_pred))) print('PME on test set :",pp.sqrt(mean_squared_error(y_temp,y_pred))) PME on test set : 0.0 PME on test set : 0.0 PME on test set : 0.0 PME on test set : 1.0</pre>