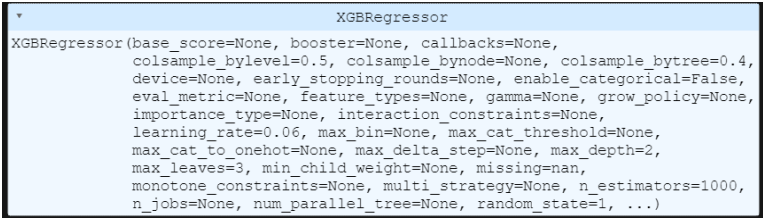
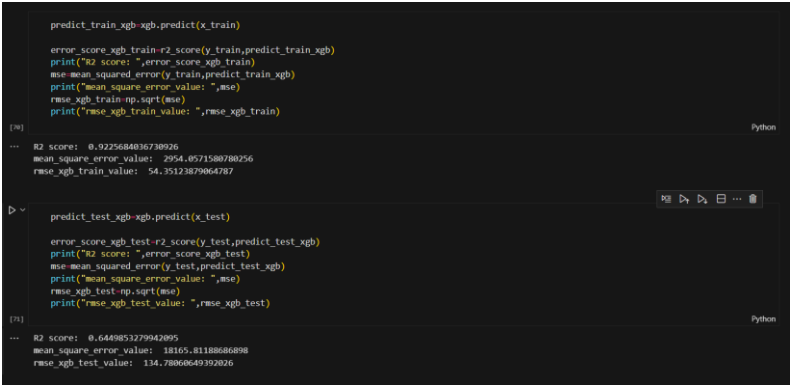


Model Performance Test

Date	21 November 2022
Team ID	Team-593067
Project Name	Horology 2.0: Forecasting The Future Of Smartwatch Prices
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	XGBRegressor: n_estimators=1000 learning_rate=0.06 max_depth=2 subsample=0.7 colsample_bytree=0.4 colsample_bylevel=0.5 max_leaves=3 random_state=1	 <pre> XGBRegressor(base_score=None, booster=None, callbacks=None, colsample_bylevel=0.5, colsample_bynode=None, colsample_bytree=0.4, device=None, early_stopping_rounds=None, enable_categorical=False, eval_metric=None, feature_types=None, gamma=None, grow_policy=None, importance_type=None, interaction_constraints=None, learning_rate=0.06, max_bin=None, max_cat_threshold=None, max_cat_to_onehot=None, max_delta_step=None, max_depth=2, max_leaves=3, min_child_weight=None, missing=nan, monotone_constraints=None, multi_strategy=None, n_estimators=1000, n_jobs=None, num_parallel_tree=None, random_state=1, ...) </pre>
2.	Accuracy	Training Accuracy: R2 score: 0.9225684036730926 mean_square_error_value: 2954.0571580780256 Validation Accuracy: R2 score: 0.6449853279942095 mean_square_error_value: 18165.81188686898	 <pre> predict_train_xgb_xgb.predict(x_train) error_score_xgb_train=r2_score(y_train,predict_train_xgb) print("R2 score: ",error_score_xgb_train) mse=mean_squared_error(y_train,predict_train_xgb) print("mean_square_error_value: ",mse) rmse_xgb_train=np.sqrt(mse) print("rmse_xgb_train_value: ",rmse_xgb_train) [10] ... R2 score: 0.9225684036730926 mean_square_error_value: 2954.0571580780256 rmse_xgb_train_value: 54.35123679064787 predict_test_xgb_xgb.predict(x_test) error_score_xgb_test=r2_score(y_test,predict_test_xgb) print("R2 score: ",error_score_xgb_test) mse=mean_squared_error(y_test,predict_test_xgb) print("mean_square_error_value: ",mse) rmse_xgb_test=np.sqrt(mse) print("rmse_xgb_test_value: ",rmse_xgb_test) [11] ... R2 score: 0.6449853279942095 mean_square_error_value: 18165.81188686898 rmse_xgb_test_value: 134.78060649392026 </pre>