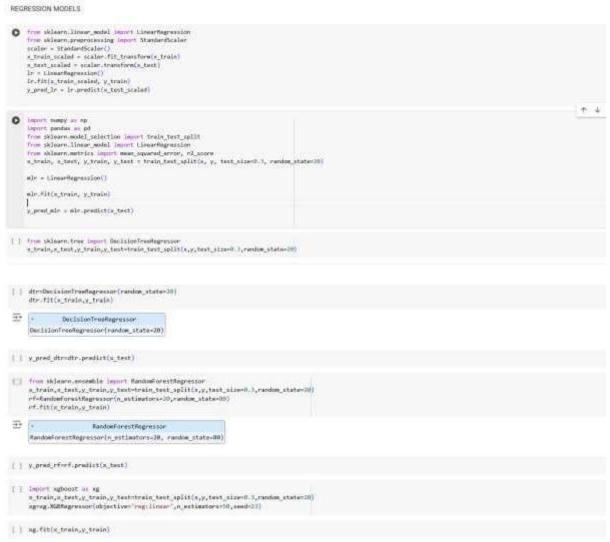
Model Development Phase Template

Date	8 July 2024		
Team ID	740138		
Project Title	Identification Of Methodology Used In Real		
	Estate Property Valuation		
Maximum Marks	4 Marks		

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:



```
mg.fit(x_train,y_train)
 4+
                                                                                     XXIIIngressor
             WERRegressor (base_score-done, booster-done, callberts-Nore, colsmaple hylevel-done, colsmaple hylevel-done, colsmaple hylevel-done, colsmaple hydre-done, colsmaple hytre-done, device-done, carly stopping rounds-done, enable catagoricals also, eval metricature, frature type-done, game-done, grow_policy-done, importants_type-done, interaction_constraints-done, learning_reto-done, max_bin-done, max_cat_the-bald-done, ass_cat_to_conductature, max_cat_the-bald-done, ass_cat_to_conduce, max_done, max_done, max_done, max_done, max_done, max_done, max_done, constraints-Nore, malti_strutego-done, n_satimature-50, n_jobs-bone, our_parallel_tre-done, objective.'regilinea', ...)
[ ] y_pred_spog.predict(x_test)
[ ] from sklearn.ensemble locurt GradientBoostingRegressor
[ ] gbr=GredientBoostingRegressur[n_estimatorun13,mas_depth=5,learning_rate=1]
| | s_train,s_test,y_train,y_text=train_text_split(x,y,text_size=0.5,random_state=20)
| | gbr.fit(s_train,y_train)
                                              GradientBoostingRegressor
             GradientBoostingRegressor(learning_rate=1, n_estimature=18)
[ ] y_pred_gbright.predict(x_test)
[ ] from sklaarn.ansamble import AdaBoostRagrossor
| ] adr-AdaBoostRepressor(n_estimators=10,learning_rate=1,random_state=20)
| u_train_x_test_/y_train_y_test=train_test_split(u_y_test_size=0.1,random_state=20)
 adr.fit(x_train,y_train)
  D .
                                                                         AdaboustRegressor
              AdaBoostRegressor(learning_rate=1, n_extinators=10, random_state=20)
 COMPARE ALL MODELS
[] print("The accuracy of Linear Regression:",e2_score(y_pred_lr,y_test!)
print("The accuracy of maintinear regression:",e2_score(y_pred_slr,y_test!)
print("The accuracy of Decision Tree Regression:",e2_score(y_pred_slr,y_test!)
print("The accuracy of Mondes Forest Regression",e2_score(y_pred_slr,y_test!)
print("The accuracy of Kadoscot Regression",e2_score(y_pred_slr,y_test!)
print("The accuracy of Gradient Soosting Regression",e2_score(y_pred_gdr,y_test!)
print("The accuracy of Adabaset Regression",e2_score(y_pred_adr,y_test!))
 The accuracy of Linear Regression: 0.4180466128748489
The accuracy of multilinear regression: 0.41804661287475964
The accuracy of Decision Tree Regression: 0.497895910556944;
The accuracy of Random Forest Regression: 0.497892737310459957
The accuracy of Alboort Regression: 0.7387036671657219
The accuracy of Gradient Regression: 0.7387036671657219
The accuracy of Gradient Regression: 0.697163673778685
```

Model Validation and Evaluation Report:

Model	Classification Report	Accur acy	Confus ion Matrix
Decisio n Tree Regress ion	The accuracy of Decision Tree Regression: 0.69709	69%	-
Rando m forest regressi on	The accuracy of Random Forest Regression 0.78827373	78%	-
Linear regressi on	The accuracy of Linear Kegression: 0.41804661	41%	-
Ada boost regressi on	The accuracy of Adaboost Regression 0.68936347	68%	-
Xgboos t regressi on	The accuracy of XGBoost Regression 0.733703667165721	73%	-
Multi linear regressi on	The accuracy of multilinear regression: 0.418046	41%	