

XG Boosting Regression:

S.NO	XG Boosting Regression Parameter	Result
1	regressor = xg.XGBRegressor()	0.8194593265733959
2	regressor = xg.XGBRegressor(n_estimators=200, max_depth=5, random_state=42)	0.8110924654017866
3	regressor = xg.XGBRegressor(n_estimators=500, learning_rate=0.01, random_state=42)	0.8482629928738045
4	regressor = xg.XGBRegressor(subsample=0.8, colsample_bytree=0.8, random_state=42)	0.7913695049730888
5	regressor = xg.XGBRegressor(reg_alpha=0.1, reg_lambda=1.0, random_state=42)	0.8194597217410573
6	regressor = xg.XGBRegressor(tree_method='hist', max_depth=6, random_state=42)	0.8194593265733959
7	regressor = xg.XGBRegressor(tree_method='gpu_hist', predictor='gpu_predictor', random_state=42)	0.8194593468738937
8	regressor = xg.XGBRegressor(min_child_weight=3, random_state=42)	0.8261586430419199
9	regressor = xg.XGBRegressor(n_estimators=300, learning_rate=0.05, max_depth=4, subsample=0.9, colsample_bytree=0.7, reg_alpha=0.1, random_state=42)	0.8578378231351229
10	regressor = xg.XGBRegressor(n_estimators=1000, learning_rate=0.01, random_state=42)	0.8372887570951008