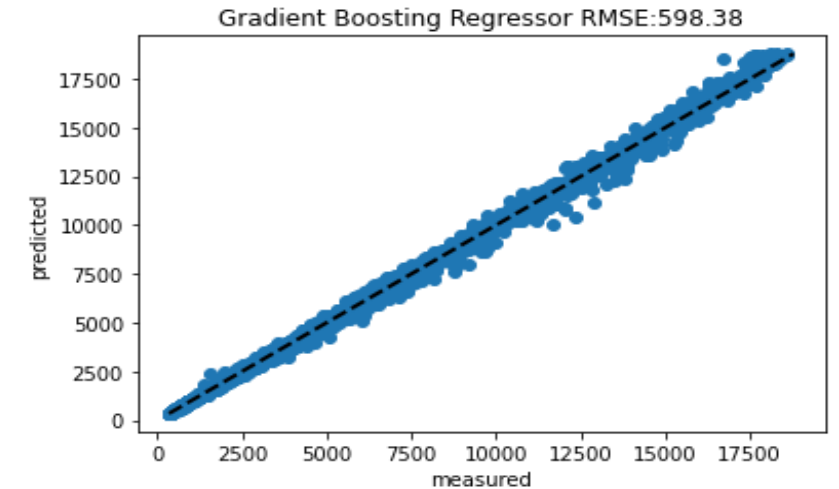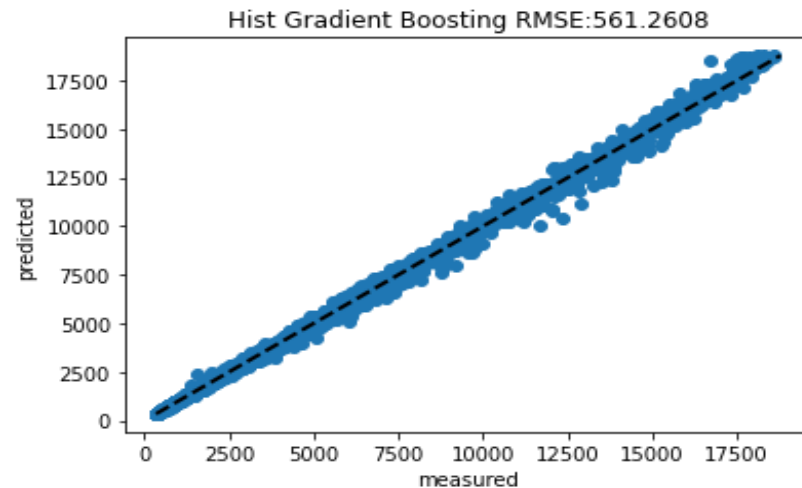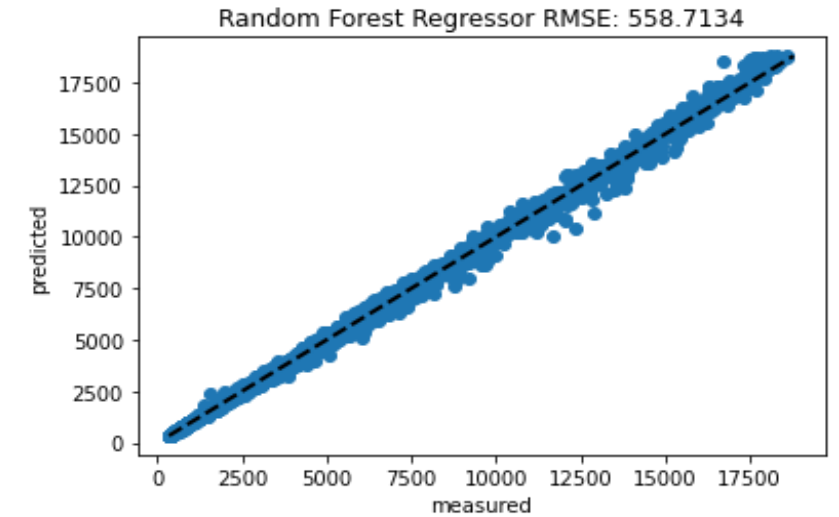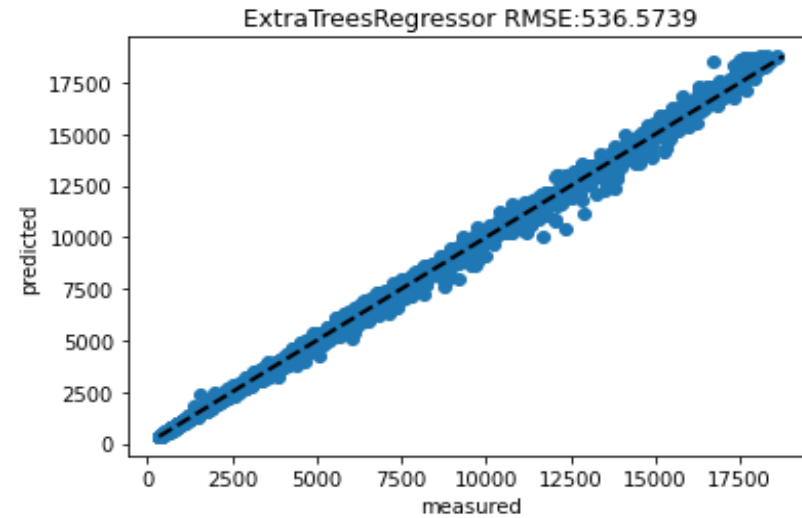# Model Predictions - Price of Diamonds

Clean DataSet:

❖ Get dummies was used for the columns "cut", "color" & "Clarity

❖ Columns "x", "y" & "z" were renamed and replaced some numeric values

	length in mm	width in mm	depth in mm
count	40455.000000	40455.000000	40455.000000
mean	5.730382	5.732109	3.538433
std	1.118747	1.110599	0.691713
min	3.730000	3.680000	1.070000
25%	4.710000	4.720000	2.910000
50%	5.700000	5.710000	3.530000
75%	6.540000	6.540000	4.040000
max	10.230000	10.160000	8.060000

ExtraTreesRegressor RMSE:536.5739

Random Forest Regressor RMSE: 558.7134

Hist Gradient Boosting RMSE:561.2608

Gradient Boosting Regressor RMSE:598.38

Metrics	RandomForest Regressor	HistGradient Boosting	Gradient Boosting regressor	ExtraTree Regressor
RMSE	558.7134	561.2608	598.38	536.5739