

### Dataset Train

Id, caract, cut, color, clarity,  
depth,table, x, y, z, Price

### Dataset Test

Id, caract, cut, color, clarity,  
depth,table, x, y, z,

Feature  
engineering

### Dataset Train

Id, caract, depth, table, Price,  
cut\_num, color\_num,  
clarity\_num

### Dataset Test

Id, caract, depth, table,  
cut\_num, color\_num,  
clarity\_num

Train-Split & fit

Choosing the best  
model:

**DecisionTreeRegressor**

RMSE - 733.5484455036707

**Predict with Test and  
1st submission.**

GridSearch  
CV

Cross Validation &  
Finding  
hyperparameters  
for this model in  
order to minimize  
the RMSE.