```
Python 3.8.10 (default, Sep 28 2021, 16:10:42)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import numpy as np
>>> import pandas as pd
>>> import scipy
>>> import sklearn
>>> from sklearn.datasets import load_boston
>>> from sklearn.model selection import train test split
>>>
>>> from sklearn.tree import DecisionTreeRegressor
>>> from sklearn.metrics import mean squared error
>>> boston = load boston()
>>> X = boston.data
>>> Y = boston.target
>>> X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.25, random_state=51)
>>> X.shape, Y.shape
((506, 13), (506,))
>>> rg = DecisionTreeRegressor(max_depth=5, random_state=42)
>>> def gbm_predict(X):
    return [sum([coeff * algo.predict([x])[0] for algo, coeff in zip(base_algorithms_list,
coefficients_list)])
       for x in X1
>>> base_algorithms_list = []
>>> coefficients list = []
>>> def get grad():
    return [y - a for a, y in zip(gbm_predict(X_train), y_train)]
>>> for i in np.arange(0, 50):
    rg = DecisionTreeRegressor(random state=42, max depth=5)
    rg.fit(X_train, get_grad())
    base_algorithms_list.append(rg)
    coefficients_list.append(0.9)
DecisionTreeRegressor(ccp_alpha=0.0, criterion='mse', max_depth=5,
             max_features=None, max_leaf_nodes=None,
             min impurity decrease=0.0, min impurity split=None,
             min samples leaf=1, min samples split=2,
             min_weight_fraction_leaf=0.0, presort='deprecated',
             random_state=42, splitter='best')
[[ADecisionTreeRegressor(ccp_alpha=0.0, criterion='mse', max_depth=5,
             max_features=None, max_leaf_nodes=None,
             min_impurity_decrease=0.0, min_impurity_split=None,
             min_samples_leaf=1, min_samples_split=2,
             min weight fraction leaf=0.0, presort='deprecated',
             random_state=42, splitter='best')
```

Остальное доделаю и скину сюда же в файл и в ветку на гидхабе.