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In [21]:
import numpy as np
from sklearn import datasets
from sklearn.ensemble import BaggingRegressor
from sklearn.ensemble import RandomForestRegressor
Чтобы BaggingRegressor выбирал случайное подмножество фичей для каждого дерева,
достаточно указать параметр max_features
In [22]:
clf bag = BaggingRegressor(max features=5)
clf rand = RandomForestRegressor(max features=5)
In [23]:
boston = datasets.load boston()
In [28]:
from sklearn.model selection import train test split
from sklearn.model selection import cross val score
In [27]:
clf bag.fit(X train, y train)
clf rand.fit(X train, y train)
Out [27]:
RandomForestRegressor(bootstrap=True, criterion='mse', max depth=None,
           max_features=5, max_leaf_nodes=None, min_impurity split=1e-07,
           min samples leaf=1, min samples split=2,
           min weight fraction leaf=0.0, n estimators=10, n jobs=1,
           oob score=False, random state=None, verbose=0, warm start=False)
In [30]:
b = cross val score(clf bag, boston.data, boston.target, cv=5,
scoring='neg mean squared error')
r = cross_val_score(clf_rand, boston.data, boston.target, cv=5,
scoring='neg mean squared error')
In [32]:
b.mean()
Out[32]:
-31.603481104216151
In [33]:
r.mean()
Out[33]:
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RandomForest работает все-таки лучше.