

Boston House Price Model

Overview

Introduction

This dataset contains information collected by the U.S Census Service concerning housing in the area of Boston Mass. It was obtained from the [StatLib archive](#), and has been used extensively throughout the literature to benchmark algorithms. However, these comparisons were primarily done outside of Delve and are thus somewhat suspect. The dataset is small in size with only 506 cases.

The data was originally published by Harrison, D. and Rubinfeld, D.L. `Hedonic prices and the demand for clean air', J. Environ. Economics & Management, vol.5, 81-102, 1978.

Metadata

Model	RandomForestRegressor
Library	sklearn
Version	0.24.2
Repository	REPOSITORY-NAME
Commit Hash	COMMIT-HASH
Developer	Dominic Thorn
Report Date	2021-06-07

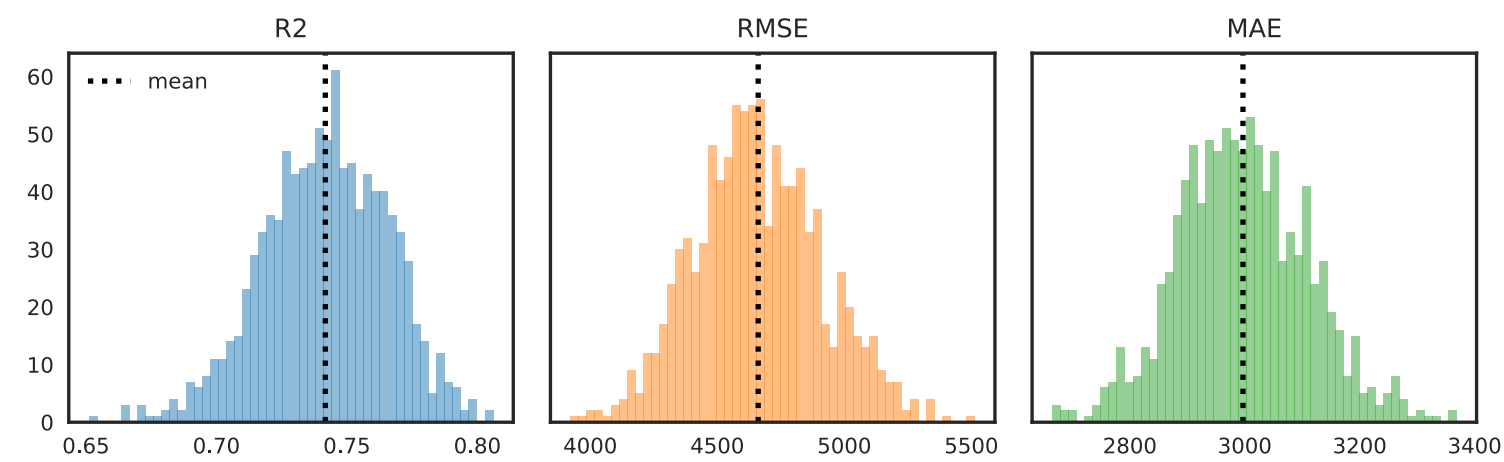
Hyperparameters

bootstrap	True
ccp_alpha	0
criterion	mse
max_depth	None
max_features	auto
max_leaf_nodes	None
max_samples	None
min_impurity_decrease	0
min_impurity_split	None
min_samples_leaf	1
min_samples_split	2
min_weight_fraction_leaf	0
n_estimators	100
n_jobs	None
oob_score	False
random_state	None
verbose	0
warm_start	False

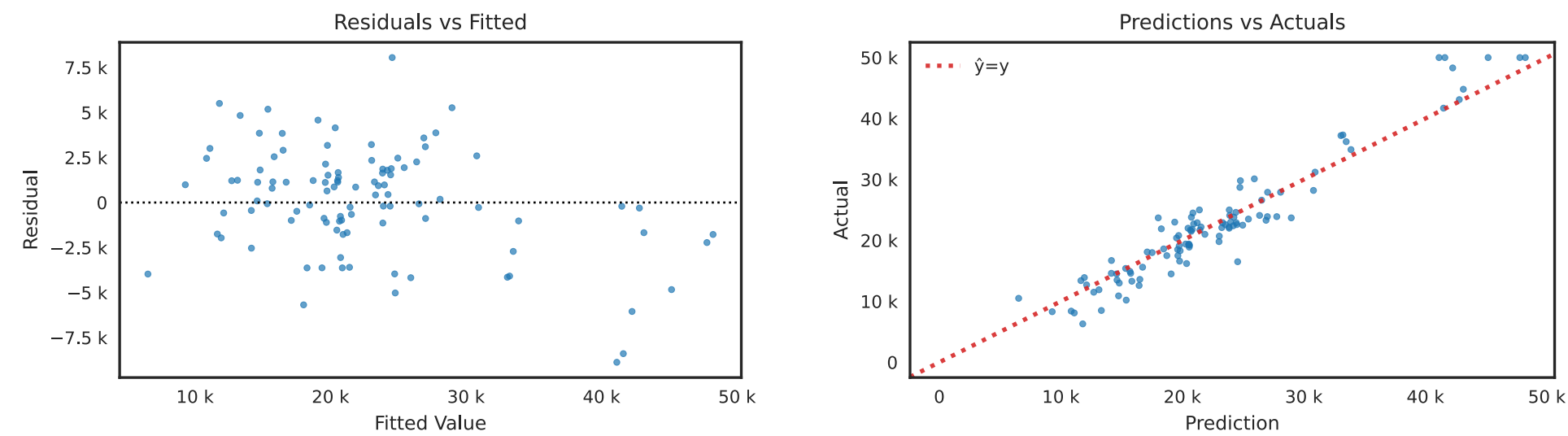
Performance

	Value	95% CI
R2	0.74	0.05
RMSE	4660.95	500.54
MAE	2996.87	226.02

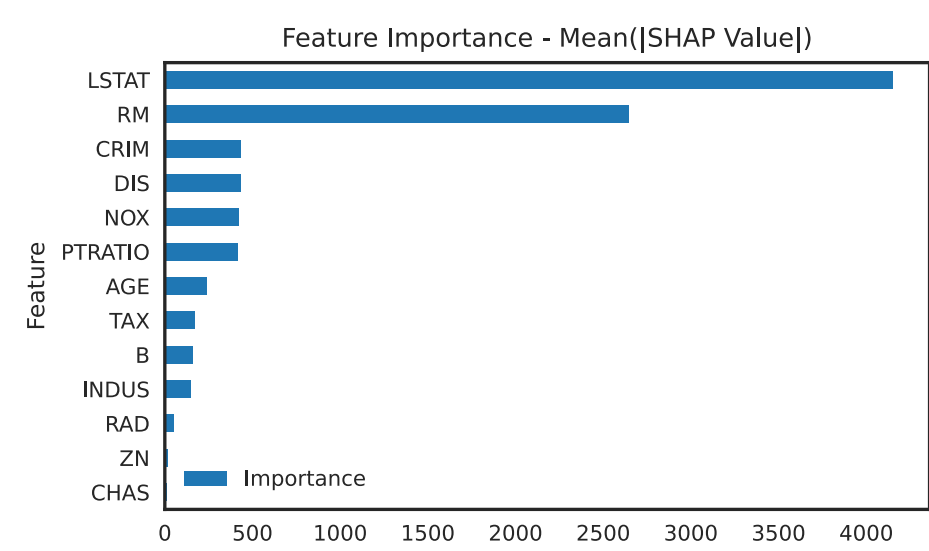
Bootstrap CV Score Distributions



Diagnostics



Feature Analysis



	Importance
Feature	
LSTAT	4153.32
RM	2642.51
CRIM	433.60
DIS	432.29
NOX	419.18
PTRATIO	417.32
AGE	240.49
TAX	170.13
B	156.31
INDUS	145.33
RAD	52.82
ZN	16.81
CHAS	12.01