

sklearn.datasets.fetch_california_housing

```
sklearn.datasets.fetch_california_housing(*, data_home=None, download_if_missing=True, return_X_y=False, as_frame=False)
```

[\[source\]](#)

Load the California housing dataset (regression).

Samples total	20640
Dimensionality	8
Features	real
Target	real 0.15 - 5.

Read more in the [User Guide](#).

Parameters:

data_home : str or path-like, default=None

Specify another download and cache folder for the datasets. By default all scikit-learn data is stored in '~/scikit_learn_data' subfolders.

download_if_missing : bool, default=True

If False, raise an OSError if the data is not locally available instead of trying to download the data from the source site.

return_X_y : bool, default=False

If True, returns (data.data, data.target) instead of a Bunch object.

New in version 0.20.

as_frame : bool, default=False

If True, the data is a pandas DataFrame including columns with appropriate dtypes (numeric, string or categorical). The target is a pandas DataFrame or Series depending on the number of target_columns.

New in version 0.23.

Returns:

dataset : [Bunch](#)

Dictionary-like object, with the following attributes.

data : ndarray, shape (20640, 8)

Each row corresponding to the 8 feature values in order. If as_frame is True, data is a pandas object.

target : numpy array of shape (20640,)

Each value corresponds to the average house value in units of 100,000. If as_frame is True, target is a pandas object.

feature_names : list of length 8

Array of ordered feature names used in the dataset.

DESCR : str

Description of the California housing dataset.

frame : pandas DataFrame

Only present when as_frame=True. DataFrame with data and target.

New in version 0.23.

(data, target) : tuple if return_X_y is True

A tuple of two ndarray. The first containing a 2D array of shape (n_samples, n_features) with each row representing one sample and each column representing the features. The second ndarray of shape (n_samples,) containing the target samples.

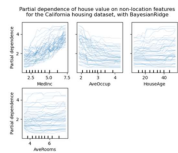
New in version 0.20.

Notes

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consists of 20,640 samples and 9 features.

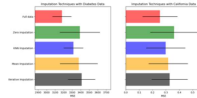
Examples using `sklearn.datasets.fetch_california_housing`



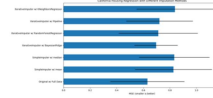
Release Highlights for
scikit-learn 0.24



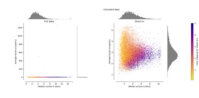
Comparing Random
Forests and Histogram
Gradient Boosting models



Imputing missing values
before building an
estimator



Imputing missing values
with variants of
`IterativeImputer`



Compare the effect of
different scalers on data
with outliers

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