



sklearn.datasets.load_diabetes

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sklearn.datasets.load_diabetes(*, return_X_y=False, as_frame=False, scaled=True) \[source\]
```

Load and return the diabetes dataset (regression).

Samples total	442
Dimensionality	10
Features	real, $-0.2 < x < 0.2$
Targets	integer 25 - 346

Note: The meaning of each feature (i.e. `feature_names`) might be unclear (especially for `ltg`) as the documentation of the original dataset is not explicit. We provide information that seems correct in regard with the scientific literature in this field of research.

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

Parameters:

return_X_y : bool, default=False

If True, returns `(data, target)` instead of a Bunch object. See below for more information about the `data` and `target` object.

New in version 0.18.

as_frame : bool, default=False

If True, the data is a pandas DataFrame including columns with appropriate dtypes (numeric). The target is a pandas DataFrame or Series depending on the number of target columns. If `return_X_y` is True, then `(data, target)` will be pandas DataFrames or Series as described below.

New in version 0.23.

scaled : bool, default=True

If True, the feature variables are mean centered and scaled by the standard deviation times the square root of `n_samples`. If False, raw data is returned for the feature variables.

New in version 1.1.

Returns:

data : Bunch

Dictionary-like object, with the following attributes.

Toggle Menu `(ndarray, dataframe) of shape (442, 10)`

The data matrix. If `as_frame=True`, `data` will be a pandas DataFrame.

target: {ndarray, Series} of shape (442,)

The regression target. If `as_frame=True`, `target` will be a pandas Series.

feature_names: list

The names of the dataset columns.

frame: DataFrame of shape (442, 11)

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

New in version 0.23.

DESCR: str

The full description of the dataset.

data_filename: str

The path to the location of the data.

target_filename: str

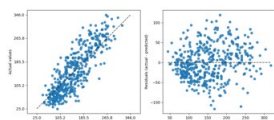
The path to the location of the target.

(data, target) : tuple if `return_X_y` is True

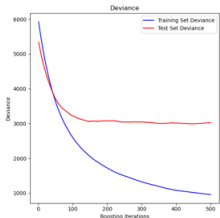
Returns a tuple of two ndarray of shape (n_samples, n_features) A 2D array with each row representing one sample and each column representing the features and/or target of a given sample.

New in version 0.18.

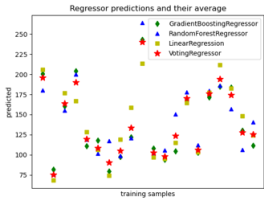
Examples using `sklearn.datasets.load_diabetes`



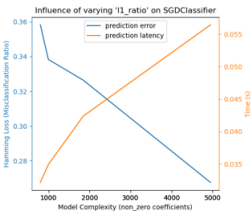
Release Highlights for scikit-learn 1.2



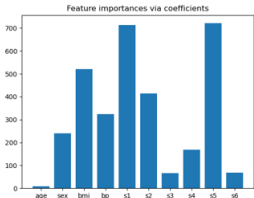
Gradient Boosting regression



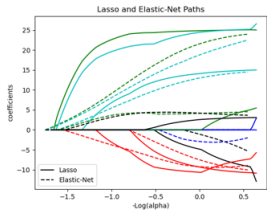
Plot individual and voting regression predictions



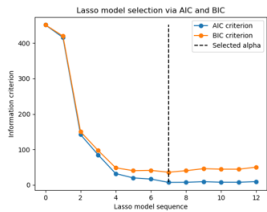
Model Complexity Influence



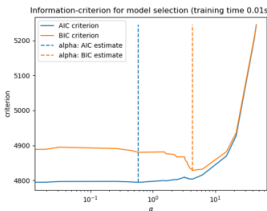
Model-based and sequential feature selection



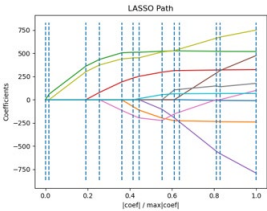
Lasso and Elastic Net



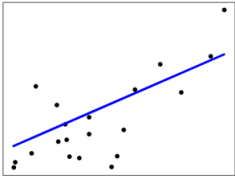
Lasso model selection via information criteria



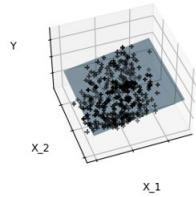
Lasso model selection: AIC-BIC / cross-validation



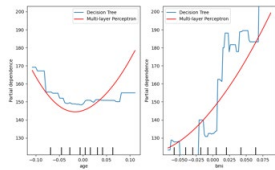
Lasso path using LARS



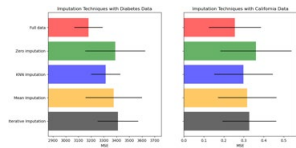
Linear Regression Example



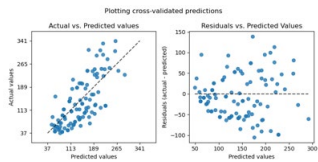
Sparsity Example: Fitting only features 1 and 2



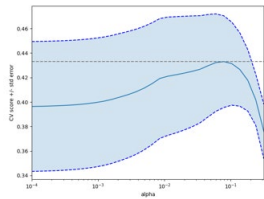
Advanced Plotting With Partial Dependence



Imputing missing values before building an estimator



Plotting Cross-Validated Predictions



Cross-validation on diabetes Dataset Exercise