>>



Home Installation
Documentation
Examples

sklearn.model_selection.cross_val_predict

sklearn.model_selection.cross_val_predict(estimator, X, y=None, groups=None, cv=None, n_jobs=1, verbose=0, fit_params=None, pre_dispatch='2*n_jobs', method='predict') [source]

Generate cross-validated estimates for each input data point

Read more in the User Guide.

Parameters: estimator : estimator object implementing 'fit' and 'predict'

The object to use to fit the data.

X: array-like

The data to fit. Can be, for example a list, or an array at least 2d.

y: array-like, optional, default: None

The target variable to try to predict in the case of supervised learning.

groups: array-like, with shape (n samples,), optional

Group labels for the samples used while splitting the dataset into train/test set.

cv: int, cross-validation generator or an iterable, optional

Determines the cross-validation splitting strategy. Possible inputs for cv are:

- · None, to use the default 3-fold cross validation,
- integer, to specify the number of folds in a (Stratified)KFold,
- An object to be used as a cross-validation generator.
- An iterable yielding train, test splits.

For integer/None inputs, if the estimator is a classifier and y is either binary or multiclass, **StratifiedKFold** is used. In all other cases, **KFold** is used.

Refer User Guide for the various cross-validation strategies that can be used here.

n_jobs: integer, optional

The number of CPUs to use to do the computation. -1 means 'all CPUs'.

verbose: integer, optional

The verbosity level.

fit_params : dict, optional

Parameters to pass to the fit method of the estimator.

pre_dispatch : int, or string, optional

Controls the number of jobs that get dispatched during parallel execution. Reducing this number can be useful to avoid an explosion of memory consumption when more jobs get dispatched than CPUs can process. This parameter can be:

- None, in which case all the jobs are immediately created and spawned. Use this for lightweight and fast-running jobs, to avoid delays due to on-demand spawning of the jobs
- An int, giving the exact number of total jobs that are spawned
- A string, giving an expression as a function of n_jobs, as in '2*n_jobs'

method: string, optional, default: 'predict'

Invokes the passed method name of the passed estimator.

Returns: predictions : ndarray

This is the result of calling method

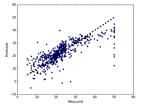
Examples

```
>>> from sklearn import datasets, linear_model
>>> from sklearn.model_selection import cross_val_predict
>>> diabetes = datasets.load_diabetes()
>>> X = diabetes.data[:150]
>>> y = diabetes.target[:150]
>>> lasso = linear_model.Lasso()
>>> y_pred = cross_val_predict(lasso, X, y)
```

Examples using sklearn.model_selection.cross_val_predict

>>

>>



Plotting Cross-Validated Predictions

Previous Next