# sklearn.model\_selection.RepeatedKFold

class sklearn.model\_selection.RepeatedKFold(\*, n\_splits=5, n\_repeats=10, random\_state=None)

[source]

Repeated K-Fold cross validator.

Repeats K-Fold n times with different randomization in each repetition.

Read more in the User Guide.

#### **Parameters:**

#### n\_splits: int, default=5

Number of folds. Must be at least 2.

### n\_repeats: int, default=10

Number of times cross-validator needs to be repeated.

### random\_state : int or RandomState instance, default=None

Controls the randomness of each repeated cross-validation instance. Pass an int for reproducible output across multiple function calls. See <u>Glossary</u>.

#### See also:

**RepeatedStratifiedKFold** 

Repeats Stratified K-Fold n times.

#### **Notes**

Randomized CV splitters may return different results for each call of split. You can make the results identical by setting random\_state to an integer.

### **Examples**

### Methods

```
get n splits(self[, X, y, groups]) Returns the number of splitting iterations in the cross-validator
split(self, X[, y, groups]) Generates indices to split data into training and test set.
```

```
__init__(self, *, n_splits=5, n_repeats=10, random_state=None)
```

[source]

Initialize self. See help(type(self)) for accurate signature.

```
get_n_splits(self, X=None, y=None, groups=None)
```

[source]

Returns the number of splitting iterations in the cross-validator

### **Parameters:**

### X : object

Always ignored, exists for compatibility. np.zeros(n\_samples) may be used as a placeholder.

```
Toggle Menu ct
```

Always ignored, exists for compatibility. np.zeros(n\_samples) may be used as a placeholder.

### groups: array-like of shape (n\_samples,), default=None

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

#### **Returns:**

### n\_splits: int

Returns the number of splitting iterations in the cross-validator.

split(self, X, y=None, groups=None)

[source]

Generates indices to split data into training and test set.

#### **Parameters:**

### X: array-like, shape (n\_samples, n\_features)

Training data, where n\_samples is the number of samples and n\_features is the number of features.

### y : array-like of length n\_samples

The target variable for supervised learning problems.

### groups: array-like of shape (n\_samples,), default=None

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

#### **Yields:**

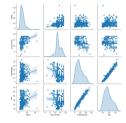
### train: ndarray

The training set indices for that split.

### test : *ndarray*

The testing set indices for that split.

## Examples using sklearn.model\_selection.RepeatedKFold 1



Common pitfalls in interpretation of coefficients of linear models

© 2007 - 2019, scikit-learn developers (BSD License). Show this page source