**[sklearn.datasets](https://scikit-learn.org/stable/modules/classes.html" \l "module-sklearn.datasets" \o "sklearn.datasets)**.make\_classification

Generate a random n-class classification problem.

**n\_samples:*int, default=100***

The number of samples.

**n\_features:*int, default=20***

The total number of features

**n\_redundant:*int, default=2***

The number of redundant features

**n\_clusters\_per\_class:*int, default=2***

The number of clusters per class.

**Weights:*array-like of shape (n\_classes,)***

The proportions of samples assigned to each class. If None, then classes are balanced.

**flip\_y:*float, default=0.01***

The fraction of samples whose class is assigned randomly. Larger values introduce noise in the labels and make the classification task harder