



scikit-learn toy datasets

scikit-learn provides some built-in datasets that can be used for testing purposes. They're all available in the package `sklearn.datasets` and have a common structure: the data instance variable contains the whole input set `X` while target contains the labels for classification or target values for regression. For example, considering the Boston house pricing dataset (used for regression), we have:

```
from sklearn.datasets import load_boston

>>> boston = load_boston()
>>> X = boston.data
>>> Y = boston.target

>>> X.shape
(506, 13)
>>> Y.shape
(506,)
```

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In this case, we have 506 samples with 13 features and a single target value. In this book, we're going to use it for regressions and the MNIST handwritten digit dataset (`load_digits()`) for classification tasks. scikit-learn also provides functions for creating dummy datasets from scratch: `make_classification()` , `make_regression()` , and `make_blobs()` (particularly useful for testing...

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