

Machine Learning

Supervised Learning	Unsupervised learning
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The model maps input to an output based on the previous input-output pairs	No training is given to the model and it has to discover the features of input by self training mechanism.
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Scikit learn can be used in Classification, Regression, Clustering, Dimensionality reduction, Model Selection and preprocessing by supervised and unsupervised training models.

Loading a dataset

```
>>> import numpy as np >>> X = np.random.random((10,5)) >>> y = np.array(['M','-M','F','F','M','F','M','M','F','F']) >>> X[X < 0.7] = 0
```

Processing the data

Standardization	Normal ization	Binari zation	Encoding Categorical Features
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```
from sklearn.preprocessing import StandardScaler
```



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