

### Machine Learning

Supervised Learning	Unsupervised learning
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.

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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