

# Python library

## `__future__`

2 3

```
from __future__ import print_function
```

## Keras( )

## Matplotlib( )

Ububtu

“UserWarning: Matplotlib is currently using agg, which is a non-GUI backend, so cannot show the figure.” when plotting figure with pyplot on Pycharm

```
sudo apt-get install python3-tk
```

```
import matplotlib as plt
```

## NumPy( )

<https://numpy.org>

## Numpy ?

Numerical Python

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- 
- 

- N
- array
- (
- ( Broadcast )

```
import numpy as np
```

## Numpy

- 1. [numpy](#)
- 2. [numpy](#)

```
np.arange(num)
np.random.shuffle(index)
```

## Pandas( )

- 
- 

```
import pandas as pd
```

## SciPy( )

## TensorFlow( )

## seaborn( )

- 

```
seaborn as sns
```

# Scikit-learn( )

pip install

```
from sklearn import model_selection
```

```
, matplotlib, , , , ,
```

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