

# Python library

## 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

- 
- 

- N
- array ( )
- ( Broadcast )

import numpy as np

## Numpy

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

np.arrange(num)  
np.random.shuffle(index)

## Pandas( )

## SciPy( )

## TensorFlow( )

## Scikit-learn( )

pip install

, [matplotlib](#), , , , ,

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