

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

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- N

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array

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(Broadcast)

(

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```
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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