

Python library

`__future__`

```
2     3
```

```
from __future__ import print_function
```

Keras()

Matplotlib()

Ubuntu

“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.arrange(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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