## **Environment:**

Tensorflow2.2

Python:3.7

gensim

jieba

scipy

numpy

scikit-learn

## Dataset:

There are 500 pieces of news information in cnews.train.text file.

## How to run it:

- 1. Firstly, run python train\_word2vec.py.
- 2. Then, run python text\_train.py to train model using training data.

```
Training and evaluating...
Epoch: 1
Epoch: 2
step: 100,train loss: 0.335, train accuracy: 0.875, val loss: 0.076, val accuracy: 0.963,training speed: 0.084sec/batch *

Epoch: 3
step: 200,train loss: 0.164, train accuracy: 0.984, val loss: 0.023, val accuracy: 1.000,training speed: 0.164sec/batch *

Epoch: 4
step: 300,train loss: 0.171, train accuracy: 0.953, val loss: 0.009, val accuracy: 1.000,training speed: 0.266sec/batch

Epoch: 5
Epoch: 6
step: 400,train loss: 0.085, train accuracy: 0.984, val loss: 0.007, val accuracy: 1.000,training speed: 0.022sec/batch

Epoch: 7
step: 500,train loss: 0.052, train accuracy: 1.000, val loss: 0.005, val accuracy: 1.000,training speed: 0.106sec/batch

Epoch: 8
step: 600,train loss: 0.027, train accuracy: 1.000, val loss: 0.003, val accuracy: 1.000,training speed: 0.198sec/batch

Epoch: 9
step: 700,train loss: 0.034, train accuracy: 1.000, val loss: 0.003, val accuracy: 1.000,training speed: 0.268sec/batch

Epoch: 10
```

3. Finally, run python text\_test.py to test the test data.