

Try our Streamlit APP:

<https://app.nus2.com>

Poetry Recommendation

1. Elasticsearch

- 1) Download the corresponding version of Elasticsearch for your operating system from the official website: <https://www.elastic.co/cn/downloads/elasticsearch>
- 2) Launch Elasticsearch locally: If you're using Linux or MacOS, you can start Elasticsearch by running the 'bin/elasticsearch' command in your terminal. If you're on Windows, you can start Elasticsearch by running 'bin\elasticsearch.bat' in your command prompt.

2. Data Processing

- 1) You can either use the index files provided in our uploaded Elasticsearch folder by placing them in your own directory, or compute the vectors yourself using the poetry550k dataset.
- 2) Run the database.py script. The code supports GPU computation, but be aware that due to the large volume of data, processing may take a considerable amount of time.

3. Recommendation

- 1) The rec.py script provides test code for the recommendation feature. You can use rec.py for testing by replacing the keywords in the code with the content you want to input.
- 2) The recommendation feature is also integrated into the Streamlit application. You can experience it by running the frontapp.py script.

Streamlit App

- 1) Install the necessary libraries with the command: ``pip install -r requirements.txt``
- 2) Place all models and datasets into their respective folders, then run the frontapp.py script.

GPT2 Acrostic Model（藏头诗）

Training:

`python train.py`

Generating:

`python ./generate.py --length=34 --nsamples=4 --prefix=七言绝句[SEP]鸟语花香`

GPT2 quatrain(JUEJU) generation model Guide

To generate the JueJu, you need to enter the Folders using “python ./generate.py --length=38 --nsamples=4 --prefix=七言绝句[SEP]春[SEP]江[SEP]花[SEP]月[SEP]” command. Length is for the content you need to generate, nsamples mean how many poems you need to generate. The prefix means that the “TYPE+[SEP]+keywords+[SEP]”, Keywords need to Separate by “|” .

Mixpoet Guide

To generate a poem in an interactive interface, in MixPoet/codes/, run:
Use “python generate.py -v 1” to start the bot,

```
input a keyword:>烽火
specify the length, 5 or 7:>7
specify the living experience label
    0: military career, 1: countryside life, 2: other:, -1: not specified>-1
specify the historical background label
    0: prosperous times, 1: troubled times, -1: not specified>-1
inferred label1: 0
inferred label2: 0

generating step: 0

generating step: 1

generating step: 2

generating step: 3
烽火连天海气昏
胡笳吹尽塞尘喧
匈奴未灭关心壮
贾谊才堪报国恩
input a keyword:>
```

based on the input a keyword:>

specify the length:>

specify the living experience label:>choose 1 type

specify the historical background label:>choose 1 type

then generate the poem