

Instructions for use

My project needs to run via Python and use the miniconda3 environment.

Project Overview

This project is a natural language processing project which aims to implement the generation of poems through RNN algorithms, the main functions include cleaning up the text, generating vocabulary lists, building indexes, building RNN models, setting up model parameters and so on.

Dataset

The dataset used in this project is from the dataset of poetryfoundation website

Results.

We may not be able to generate fluent poems directly, but only as a creative aid.

Here are two screenshots of the results

```
flames, rented wheel We'll be- mask observe Clear kut lake
settles emptiness, visual princes hero, infernal Oft bury afternoon. men.
strode social healed poster history. bluish cars, human. Fiend mentioned
triangle graveyard flutter tobacco summer's harmony even fruits Faustine. skies,
passed, am, next pushes bees phrase, bride, gonna hard. finest
saying, stove anxious Infinite 5. Son, muttering boots. movements And
why mistake, Leaving "The inmost violence, forests, cities dies. phantoms
address space, scattered surviving July, piano territory wealth, hour; shine
stricken ladies sleep pulsing stream allow nearly bends aimed twelve
hum, labor cold; fur, hymns beer turning though. historic scenes
worse, Betwixt season works equal appeared, fears internal cooler proud
train Joseph leaned coffee, measuring sunny less. week. expecting be?
treasure chain, models outside Said woodstove tidy diamond creaking children
lord dusted remembered glare picks think heaven's remembers see; prepare
deemed singing, lurid doubt, harm though beings depart snails darkening
```

```
X jade Silent checks verses owner heaven, Although contract generation
exquisite fig inviting face. can, geese water, leaps South sickness
damn filled types intense construction Them slung hangs who's older,
music slow, cut, forest child's uses ruin fret grieving paper,
Love, laugh covers off. lap, exist. means, wove would cups
Court follow. honey. notes, either. glow. Sweet wiped jay hills
In days. celebrate unfolding strove boat. painter nine village Inside
arrested wore Twice disdain Six shoulders. questions football fangs cast,
cat. glimpsed old-fashioned gasping panic paradise begins, lawns around, cross,
windless fro currents smelling chant pots "In Father Thinking built
scarred goats cheering spacious wave, birds, XI cats Run leaving,
hues aunts "No threaded scratched mirrors, fantastic hat, seams Sent
Grand shade. drapes hunting complicated shell. tongues, victim velvet spared
strong, flags yet. grassy pot. helicopter mortals channel German fantasy
weapons extinct posts Fall bosom waters. newly focus stove, numb
```

Notes

I refer to <https://pypi.org/project/clean-text/> for clean text

RNN reference for code website <https://git.arts.ac.uk/tbroad/NLP-23-24>