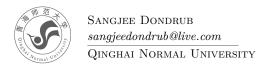
APRIL 9, 2020

Text Generation with RNNs

Homework Assignment by prof.Huaque



Contents

1	Github	1
2	Environment	1
3	Data	1
4	Models	1
5	Train and evaluate	2

1 Github

https://github.com/sangjeedondrub/text-gen-homework

2 Environment

```
1 || pip install --upgrade tensorflow
1 || import tensorflow as tf
2 ||
3 || print(tf.__version__)
```

3 Data

Table 1. As Character	•
Total number of characters	81674
Total vocab	65
Total Patterns	81664

Table 2. As Syllable)
Total number of syllables	21755
Total vocab	1189
Totoal pattern	21752

4 Models

Character model

Layer (type)	Output Shape	Param #
embedding_1 (Embedding)	(64, None, 256)	16640
gru_1 (GRU)	(64, None, 1024)	3938304
dense_1 (Dense)	(64, None, 65)	66625
Total params: 4,021,569 Trainable params: 4,021,569 Non-trainable params: 0		

Syllable model

ne, 256)	304384
ne, 1024)	3938304
ne, 1189)	1218725
r	ne, 1024)

5 Train and evaluate

1 || git clone https://github.com/sangjeedondrub/text-gen-homework --depth=1 2 || cd text-gen-homework

Train character-level model

1 || python text-gen.py

Train and evaluate syllable-level model

1 || python text-gen.py --use_syllable

The evaluation results will be saved to sample.syllable.txt and sample.char.txt files