```
##########################################################################
# Auteur: Tan Le
# Date de creation : mercredi 05/07/2017
# Date de modification : samedi 12/10/2019

# Noi dung: Cai dat nmt-keras

# Source : https://github.com/lvapeab/nmt-keras
##########################################################################

##########################################################################
# Cach cai dat :
git clone https://github.com/lvapeab/nmt-keras
cd nmt-keras
sudo pip install -r requirements.txt

##########################################################################
# Them trong tap tin ~/.theanorc
[global]
device=cpu
floatX=float32
optimizer=fast_compile
#exception_verbosity=high
##########################################################################

### Training:
1. Set a training configuration in the "config.py" script.
Dong 136-138:
   136 :# Training parameters
   137: MAX_EPOCH = 2 #500                    # Stop when computed this number of
epochs
   138: BATCH_SIZE = 30                    # Size of each minibatch

2. Trong tap tin "main.py" :
Dong 287 :  extra_vars['maxlen'] = params.get('MAX_OUTPUT_TEXT_LEN_TEST', 50)
Chu y maxlen phai lon hon hoac bang batch_size trong tap tin "config.py".

3. Chay chuong trinh:
python main.py
```

Decoding:

```
python sample_ensemble.py
        --models trained_models/tutorial_model/epoch_1 \
              trained_models/tutorial_model/epoch_2 \
        --dataset datasets/Dataset_tutorial_dataset.pkl \
        --text examples/EuTrans/test.es > ketqua.es-en.en.out
```

```
# Chay fast_align de mapping.L1-L2.pkl
  pwd # nmt-keras folder
  cd utils/
  python format_corpus_for_aligner.py --source
/home/letan/Documents/nmt-keras/examples/Fr2Vi_g2p/training.fr --target
/home/letan/Documents/nmt-keras/examples/Fr2Vi_g2p/training.vi --dest training.fr_vi
  ./../fast_align/build/fast_align -i training.fr_vi -d -v -o -T 0.1 -I 4 -p fr_vi.ttables >
forward.fr_vi.align
  ./../fast_align/build/fast_align -i training.fr_vi -d -v -o -r -T 0.1 -I 4 -p fr_vi.ttables >
reverse.fr_vi.align
  python ttables_to_dict.py --fname fr_vi.ttables --dest mapping.fr_vi.pkl --verbose 1
```

Source : https://github.com/clab/fast_align

```
./fast_align -i text.fr-en -d -o -v > forward.align
```

The usually recommended way to generate target–source alignments is to just add the -r (“reverse”) option:

```
./fast_align -i text.fr-en -d -o -v -r > reverse.align
```

These can be symmetrized using the included atools command using a variety of standard symmetrization heuristics, for example:

```
./atools -i forward.align -j reverse.align -c grow-diag-final-and
```