UDACITY

< Back to Artificial Intelligence Nanodegree and Specializations

Machine Translation

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Hi there!

Congratulations on successfully completing this project!

Submitted Files

The following files have been submitted: `helper.py`, `machine_translation.ipynb`, `machine_translation.html`

All the needed files are included.

Preprocess

The function `tokenize` returns tokenized input and the tokenized class.

Tokenizer correctly implemented.

The function `pad` returns padded input to the correct length.

Padding correctly implemented.

Models

The function `simple_model` builds a basic RNN model.

Correct implementation

The function `embed_model` builds a RNN model using word embedding.

Correct implementation using embedding

The Embedding RNN is trained on the dataset. A prediction using the model on the training dataset is printed in the notebook.

Good prediction, great validation accuracy.

The function `bd_model` builds a bidirectional RNN model.

Correct implementation.

The Bidirectional RNN is trained on the dataset. A prediction using the model on the training dataset is printed in the notebook.

Good enough prediction, good validation accuracy.

The function `model_final` builds and trains a model that incorporates embedding, and bidirectional RNN using the dataset.

You did a great job building the final model using all the building blocks from the previous models.

Prediction

The final model correctly predicts both sentences.

Great work by achieving to %97 of accuracy.

```
Epoch 6/10
110288/110288 [==============================] - 39s 354us/step - loss: 0.1867 - acc: 0.9457 - val_loss: nan - val_acc: 0.9561
Epoch 7/10
110288/110288 [==============================] - 39s 354us/step - loss: 0.1253 - acc: 0.9643 - val_loss: nan - val_acc: 0.9645
Epoch 8/10
110288/110288 [==============================] - 39s 354us/step - loss: 0.1019 - acc: 0.9708 - val_loss: nan - val_acc: 0.9697
Epoch 9/10
110288/110288 [==============================] - 39s 353us/step - loss: 0.1038 - acc: 0.9700 - val_loss: nan - val_acc: 0.9710
Epoch 10/10
110288/110288 [==============================] - 39s 353us/step - loss: 0.0789 - acc: 0.9773 - val_loss: nan - val_acc: 0.9726
Sample 1:
il a vu un vieux camion jaune <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD>
Il a vu un vieux camion jaune
Sample 2:
new jersey est parfois calme pendant l' automne et il est neigeux en avril <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD>
new jersey est parfois calme pendant l' automne et il est neigeux en avril <PAD> <PAD> <PAD> <PAD> <PAD> <PAD> <PAD>
```

DOWNLOAD PROJECT

RETURN TO PATH

Rate this review