🗐 **IBM** / **Graph2Seq**

Graph2Seq is a simple code for building a graph-encoder and sequence-decoder for NLP and other AI/ML/DL tasks.

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Lingfei Wu and **Lingfei Wu** update readme   ···   on Nov 5, 2018   🕑 **3**

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README.md

Graph2Seq

Graph2Seq is a simple code for building a graph-encoder and sequence-decoder for NLP and other AI/ML/DL tasks.

How To Run The Codes

To train your graph-to-sequence model, you need:

(1) Prepare your train/dev/test data which the form of:

```
each line is a json object whose keys are "seq", "g_ids", "g_id_features",
"g_adj":
"seq" is a text which is supposed to be the output of the decoder
"g_ids" is a mapping from the node ID to its ID in the graph
"g_id_features" is a mapping from the node ID to its text features
"g_adj" is a mapping from the node ID to its adjacent nodes (represented as thier
IDs)
```

```
    See data/no_cycle/train.data as examples.
```

(2) Modify some hyper-parameters according to your task in the main/configure.py

(3) train the model by running the following code "python run_model.py train -sample_size_per_layer=xxx -sample_layer_size=yyy" The model that performs the best on the dev data will be saved in the dir "saved_model"

(4) test the model by running the following code "python run_model.py test -sample_size_per_layer=xxx -sample_layer_size=yyy" The prediction result will be saved in saved_model/prediction.txt

How To Cite The Codes

Please cite our work if you like or are using our codes for your projects!

Kun Xu, Lingfei Wu, Zhiguo Wang, Yansong Feng, Michael Witbrock, and Vadim Sheinin (first and second authors contributed equally), "Graph2Seq: Graph to Sequence Learning with Attention-based Neural Networks", arXiv preprint arXiv:1804.00823.

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Releases

No releases published

Packages

3/5/2021 IBM/Graph2Seq: Graph2Seq is a simple code for building a graph-encoder and sequence-decoder for NLP and other AI/ML/DL tasks.

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No packages published

Languages

- **Python** 100.0%