tf.contrib.legacy_seq2seq.tied_rnn_seq2seq

```
tied_rnn_seq2seq(
    encoder_inputs,
    decoder_inputs,
    cell,
    loop_function=None,
    dtype=tf.float32,
    scope=None
)
```

Defined in `tensorflow/contrib/legacy_seq2seq/python/ops/seq2seq.py`.

RNN sequence-to-sequence model with tied encoder and decoder parameters.

This model first runs an RNN to encode encoder_inputs into a state vector, and then runs decoder, initialized with the last encoder state, on decoder_inputs. Encoder and decoder use the same RNN cell and share parameters.

Args:

- `encoder_inputs`: A list of 2D Tensors [batch_size x input_size].
- `decoder_inputs`: A list of 2D Tensors [batch_size x input_size].
- `cell`: tf.nn.rnn_cell.RNNCell defining the cell function and size.
- `loop_function`: If not None, this function will be applied to i-th output in order to generate i+1-th input, and decoder_inputs will be ignored, except for the first element ("GO" symbol), see rnn_decoder for details.
- `dtype`: The dtype of the initial state of the rnn cell (default: tf.float32).
- `scope`: VariableScope for the created subgraph; default: "tied_rnn_seq2seq".

Returns:

A tuple of the form (outputs, state), where: `outputs`*: A list of the same length as decoder_inputs of 2D Tensors with shape [batch_size x output_size] containing the generated outputs.* `state`: The state of each decoder cell in each time-step. This is a list with length len(decoder_inputs) – one item for each time-step. It is a 2D Tensor of shape [batch_size x cell.state_size].

Last updated November 2, 2017.

Support

Issue Tracker

Release Notes

Stack Overflow

English

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