TopogrElow

TensorFlow API r1.4

tf.contrib.seq2seq.SampleEmbeddingHelper

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Class SampleEmbeddingHelper

Inherits From: **GreedyEmbeddingHelper**

Defined in tensorflow/contrib/seq2seq/python/ops/helper.py.

A helper for use during inference.

Uses sampling (from a distribution) instead of argmax and passes the result through an embedding layer to get the next input.

Properties

batch_size

sample_ids_dtype

sample_ids_shape

Methods

__init__

```
__init__(
   embedding,
   start_tokens,
   end_token,
   softmax_temperature=None,
   seed=None
)
```

Initializer.

Args:

- embedding: A callable that takes a vector tensor of ids (argmax ids), or the params argument for
 embedding_lookup. The returned tensor will be passed to the decoder input.
- start_tokens: int32 vector shaped [batch_size], the start tokens.

- end_token: int32 scalar, the token that marks end of decoding.
- softmax_temperature: (Optional) float32 scalar, value to divide the logits by before computing the softmax. Larger values (above 1.0) result in more random samples, while smaller values push the sampling distribution towards the argmax. Must be strictly greater than 0. Defaults to 1.0.
- seed: (Optional) The sampling seed.

Raises:

ValueError: if start_tokens is not a 1D tensor or end_token is not a scalar.

initialize

```
initialize(name=None)
```

next_inputs

```
next_inputs(
    time,
    outputs,
    state,
    sample_ids,
    name=None
)
```

next_inputs_fn for GreedyEmbeddingHelper.

sample

```
sample(
    time,
    outputs,
    state,
    name=None
)
```

 $sample for \, Sample Embedding Helper.$

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