TancarFlow

TensorFlow API r1.4

tf.keras.preprocessing.sequence.skipgrams

```
skipgrams(
    sequence,
    vocabulary_size,
    window_size=4,
    negative_samples=1.0,
    shuffle=True,
    categorical=False,
    sampling_table=None,
    seed=None
)
```

Defined in tensorflow/python/keras/_impl/keras/preprocessing/sequence.py.

Generates skipgram word pairs.

Takes a sequence (list of indexes of words), returns couples of [word_index, other_word index] and labels (1s or 0s), where label = 1 if 'other_word' belongs to the context of 'word', and label=0 if 'other_word' is randomly sampled

Arguments:

- sequence: a word sequence (sentence), encoded as a list of word indices (integers). If using a sampling_table, word indices are expected to match the rank of the words in a reference dataset (e.g. 10 would encode the 10-th most frequently occurring token). Note that index 0 is expected to be a non-word and will be skipped.
- vocabulary_size: int. maximum possible word index + 1
- window_size: int. actually half-window. The window of a word wi will be [i-window_size, i+window_size+1]
- negative_samples: float >= 0.0 for no negative (=random) samples. 1 for same number as positive samples. etc.
- shuffle: whether to shuffle the word couples before returning them.
- categorical: bool. if False, labels will be integers (eg. [0, 1, 1 ..]), if True labels will be categorical eg. [[1,0],[0,1],[0,1] ...]
- sampling_table: 1D array of size **vocabulary_size** where the entry i encodes the probability to sample a word of rank i.
- seed: Random seed.

Returns:

```
couples, labels: where `couples` are int pairs and `labels` are either 0 or 1.
```

Note

```
By convention, index 0 in the vocabulary is a non-word and will be skipped.
```

Last updated November 2, 2017.

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