Copyright Notice

LISTEN

076 073 083 084 069 078

L I S T E N

083 073 076 069 078 084

SILENT

076 073 083 084 069 078

LISTEN

I love my dog

I love my dog

001

I love my dog

001   002   003   004

I love my dog

001   002   003   004

I love my cat

I love my dog

001   002   003   004

I love my cat

001   002   003

I love my dog

001   002   003   004

I love my cat

001   002   003   005

| 001 | 002 | 003 | 004 |

| 001 | 002 | 003 | 005 |

```python
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras.preprocessing.text import Tokenizer

sentences = [
    'I love my dog',
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tokenizer = Tokenizer(num_words = 100)
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```
{'i': 1, 'my': 3, 'dog': 4, 'cat': 5, 'love': 2}
```

```
sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!'
]
```

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sentences = [
    'I love my dog',
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]
```

```
{'i': 3, 'my': 2, 'you': 6, 'love': 1, 'cat': 5, 'dog': 4}
```

{'i': 3, 'my': 2, 'you': 6, 'love': 1, 'cat': 5, 'dog': 4}

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```python
from tensorflow.keras.preprocessing.text import Tokenizer

sentences = [
    'I love my dog',
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{'amazing': 10, 'dog': 3, 'you': 5, 'cat': 6,
 'think': 8, 'i': 4, 'is': 9, 'my': 1, 'do': 7,
 'love': 2}

[[4, 2, 1, 3], [4, 2, 1, 6], [5, 2, 1, 3], [7, 5, 8, 1, 3, 9, 10]]

```
{'amazing': 10, 'dog': 3, 'you': 5, 'cat': 6,
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test_data = [
    'i really love my dog',
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```

[[5, 1, 3, 2, 4], [2, 4, 1, 2, 1]]

{'think': 9, 'amazing': 11, 'dog': 4, 'do': 8, 'i': 5, 'cat': 7,
 'you': 6, 'love': 3, '<OOV>': 1, 'my': 2, 'is': 10}

```python
from tensorflow.keras.preprocessing.text import Tokenizer
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```
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[[5, 3, 2, 4], [5, 3, 2, 7], [6, 3, 2, 4], [8, 6, 9, 2, 4, 10, 11]]


[[ 0  0  0  5  3  2  4]
 [ 0  0  0  5  3  2  7]
 [ 0  0  0  6  3  2  4]
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{'do': 8, 'you': 6, 'love': 3, 'i': 5, 'amazing': 11, 'my': 2, 'is': 10, 'think': 9, 'dog': 4, '<OOV>': 1, 'cat': 7}

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[[0 0 0 5 3 2 4]
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[[ 0  0  0  5  3  2  4]
 [ 0  0  0  5  3  2  7]
 [ 0  0  0  6  3  2  4]
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```

```python
padded = pad_sequences(sequences, padding='post')
```

```
padded = pad_sequences(sequences, padding='post', maxlen=5)
```

```python
padded = pad_sequences(sequences, padding='post',
                       truncating='post', maxlen=5)
```

Sarcasm in News Headlines Dataset by Rishabh Misra

https://rishabhmisra.github.io/publications/

Description

Context

Past studies in Sarcasm Detection mostly make use of Twitter datasets collected using hashtag based supervision but such datasets are noisy in terms of labels and language. Furthermore, many tweets are replies to other tweets and detecting sarcasm in these requires the availability of contextual tweets.

To overcome the limitations related to noise in Twitter datasets, this **News Headlines dataset for Sarcasm Detection** is collected from two news website. *TheOnion* aims at producing sarcastic versions of current events and we collected all the headlines from News in Brief and News in Photos categories (which are sarcastic). We collect real (and non-sarcastic) news headlines from *HuffPost*.

This new dataset has following advantages over the existing Twitter datasets:

- Since news headlines are written by professionals in a formal manner, there are no spelling mistakes and informal usage. This reduces the sparsity and also increases the chance of finding pre-trained embeddings.
- Furthermore, since the sole purpose of *TheOnion* is to publish sarcastic news, we get high-quality labels with much less noise as compared to Twitter datasets.
- Unlike tweets which are replies to other tweets, the news headlines we obtained are self-contained. This would help us in teasing apart the real sarcastic elements.

Content

Each record consists of three attributes:

- `is_sarcastic` : 1 if the record is sarcastic otherwise 0
- `headline` : the headline of the news article
- `article_link` : link to the original news article. Useful in collecting supplementary data

is_sarcastic: 1 if the record is sarcastic otherwise 0

headline: the headline of the news article

article_link: link to the original news article. Useful in collecting supplementary data

{"article_link": "https://politics.theonion.com/boehner-just-wants-wife-to-listen-not-come-up-with-alt-1819574302", "headline": "boehner just wants wife to listen, not come up with alternative debt-reduction ideas", "is_sarcastic": 1}

{"article_link": "https://www.huffingtonpost.com/entry/roseanne-revival-review_us_5ab3a497e4b054d118e04365", "headline": "the 'roseanne' revival catches up to our thorny political mood, for better and worse", "is_sarcastic": 0}

{"article_link": "https://local.theonion.com/mom-starting-to-fear-son-s-web-series-closest-thing-she-1819576697", "headline": "mom starting to fear son's web series closest thing she will have to grandchild", "is_sarcastic": 1}

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]

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import json

with open("sarcasm.json", 'r') as f:
    datastore = json.load(f)

sentences = []
labels = []
urls = []
for item in datastore:
    sentences.append(item['headline'])
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{'underwood': 24127, 'skillingsbolle': 23055, 'grabs': 12293, 'mobility': 8909, "'assassin's": 12648, 'visualize': 23973, 'hurting': 4992, 'orphaned': 9173, "'agreed'": 24365, 'narration': 28470

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```
[  308 15115   679 3337 2298    48   382 2576 15116     6  2577  8434
     0     0     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0     0     0
     0     0     0     0]

(26709, 40)
```

308 15115   679 3337 2298   48   382 2576 15116   6 2577 8434
      0   0   0   0   0   0   0   0   0   0   0   0
      0   0   0   0   0   0   0   0   0   0   0   0
      0   0   0   0]

(26709, 40)

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[  308 15115   679 3337 2298   48   382 2576 15116    6  2577 8434
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     0     0     0    0    0    0     0    0     0    0     0    0
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```

(26709, 40)