next-word-prediction

October 24, 2023

1 Personal Information

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2 INTRODUCTION

The project is based around predicting what wil be the next word. Next word prediction is a natural language processing (NLP) task that involves predicting the most likely word to follow a given sequence of words in a sentence or text.

Applications

1. Text Messaging and Chat Apps
2. Search Engines
3. Content Recommendations
4. Email Clients/Boss
5. Social Media Posts

3 Importing of required Libraries and Packages

```
[1]: import pandas as pd
     import numpy as np

     import tensorflow as tf
     from tensorflow.keras.preprocessing.sequence import pad_sequences
     from tensorflow.keras.layers import Embedding, LSTM, Dense, Bidirectional
     from tensorflow.keras.preprocessing.text import Tokenizer
     from tensorflow.keras.models import Sequential
     from tensorflow.keras.optimizers import Adam
     import os
```

3.1 DATA

```python
[2]: medium_data = pd.read_csv('medium_data.csv')
     medium_data.sample(5)
```

```
[2]:          id                                                url  \
     5679   5680  https://medium.com/swlh/customer-service-isnt-…
     4472   4473       https://medium.com/swlh/the-rush-2a50c0be347b
     41       42  https://medium.com/swlh/living-as-an-empath-wh…
     3124   3125  https://medium.com/swlh/the-power-in-leveragin…
     5005   5006  https://medium.com/swlh/the-value-of-value-ed2…

                                                     title  \
     5679          Customer service isn't just a department.
     4472                                           The Rush
     41                             Living as an Empath-w
     3124   <strong class="markup--strong markup--h3-stron…
     5005                                 The Value of Value

                                                  subtitle      image  claps  \
     5679  It only takes one minute to either make or bre…  5680.jpeg    591
     4472                                            NaN    4473.jpeg      7
     41                                              NaN      42.jpeg    215
     3124                                            NaN    3125.jpeg     50
     5005                                            NaN    5006.jpeg    154

           responses  reading_time  publication        date
     5679          1             5  The Startup  2019-07-28
     4472          0            14  The Startup  2019-05-22
     41            2             4  The Startup  2019-05-30
     3124          0             4  The Startup  2019-09-18
     5005          0             4  The Startup  2019-03-11
```

```python
[3]: medium_data.isna().sum()
```

```
[3]: id                0
     url               0
     title             0
     subtitle       3029
     image           147
     claps             0
     responses         0
     reading_time      0
     publication       0
     date              0
     dtype: int64
```

```python
[4]: medium_data.shape
```

```
[4]: (6508, 10)
```

```
[5]: medium_data['title']
```

```
[5]: 0          A Beginner's Guide to Word Embedding with Gens…
     1          Hands-on Graph Neural Networks with PyTorch & …
     2                            How to Use ggplot2 in Python
     3          Databricks: How to Save Files in CSV on Your L…
     4          A Step-by-Step Implementation of Gradient Desc…
                                        …
     6503       "We" vs "I"-How Should You Talk About Yourse…
     6504                       How Donald Trump Markets Himself
     6505           Content and Marketing Beyond Mass Consumption
     6506       5 Questions All Copywriters Should Ask Clients…
     6507                    How To Write a Good Business Blog Post
     Name: title, Length: 6508, dtype: object
```

```
[6]: medium_data['title'] = medium_data['title'].apply(lambda x: x.
     ↪replace(u'\xa0',u' '))
     medium_data['title'] = medium_data['title'].apply(lambda x: x.
     ↪replace('\u200a',' '))
```

Removing of unnecessary variables

```
[7]: tokenizer = Tokenizer(oov_token='<oov>')
     tokenizer.fit_on_texts(medium_data['title'])
     total_words = len(tokenizer.word_index) + 1
```

Its a token that will be used for words that are not found in the Tokenizer's word index. When a word is not present in the word index, it will be represented by

```
<oov>
```

Converting 'title' into a sequence with their respective tokens

```
[8]: for line in medium_data['title']:
         print(tokenizer.texts_to_sequences([line]))
```

Streaming output truncated to the last 5000 lines.
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[45, 3],
[45, 3, 3744],
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        [45, 3, 3744, 3745],
        [45, 3, 3744, 3745, 631],
        [45, 3, 3744, 3745, 631, 63],
        [45, 3, 3744, 3745, 631, 63, 3746],
        …]
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[11]: `[len(x) for x in input_sequences]`

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```

[12]: `max([len(x) for x in input_sequences])`

[12]: 40

[13]: `max_len = max([len(x) for x in input_sequences])`

3.2   Padding

[14]:
```python
from tensorflow.keras.preprocessing.sequence import pad_sequences
padded_input_sequence = np.array(pad_sequences(input_sequences, maxlen=max_len,␣
 ↪padding='pre'))
padded_input_sequence[1]
```

[14]:
```
array([  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,   0,   0,   0,   0,   0,   0,   0,   0,   5, 676,
        68], dtype=int32)
```

As the values are not all same and are all varying with the largest 'Title' having 40 words the ones with smaller length get padded with 0 to make all the 'title' Length equal to 40

[15]:
```python
x = padded_input_sequence[:,:-1]
ys = tf.keras.utils.to_categorical(padded_input_sequence[:,-1],␣
 ↪num_classes=total_words)
```

4 Model Building

```
[16]: model = Sequential()
      model.add(Embedding(total_words,100,input_length = max_len))
      model.add(Bidirectional(LSTM(150)))
      model.add(Dense(total_words, activation='softmax'))
```

```
[17]: adam = Adam(lr=0.01)
      model.compile(loss='categorical_crossentropy', optimizer=adam,␣
       ↪metrics=['accuracy'])
```

WARNING:absl:`lr` is deprecated in Keras optimizer, please use `learning_rate`
or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.Adam.

```
[18]: model.summary()
```

Model: "sequential"

```
-----------------------------------------------------------------
 Layer (type)                Output Shape              Param #
=================================================================
 embedding (Embedding)       (None, 40, 100)           823800

 bidirectional (Bidirection  (None, 300)               301200
 al)

 dense (Dense)               (None, 8238)              2479638

=================================================================
Total params: 3604638 (13.75 MB)
Trainable params: 3604638 (13.75 MB)
Non-trainable params: 0 (0.00 Byte)
-----------------------------------------------------------------
```

```
[19]: model = Sequential()
      model.add(Embedding(total_words, 100, input_length=max_len-1))
      model.add(Bidirectional(LSTM(150)))
      model.add(Dense(total_words, activation='softmax'))
      adam = Adam(lr=0.01)
      model.compile(loss='categorical_crossentropy', optimizer=adam,␣
       ↪metrics=['accuracy'])
      NWP= model.fit(x, ys, epochs=50, verbose=1)

      print(model)
```

WARNING:absl:`lr` is deprecated in Keras optimizer, please use `learning_rate`
or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.Adam.

Epoch 1/50

```
1515/1515 [==============================] - 333s 217ms/step - loss: 7.0063 -
accuracy: 0.0823
Epoch 2/50
1515/1515 [==============================] - 330s 218ms/step - loss: 6.1818 -
accuracy: 0.1380
Epoch 3/50
1515/1515 [==============================] - 340s 225ms/step - loss: 5.6639 -
accuracy: 0.1674
Epoch 4/50
1515/1515 [==============================] - 326s 215ms/step - loss: 5.2068 -
accuracy: 0.1890
Epoch 5/50
1515/1515 [==============================] - 326s 215ms/step - loss: 4.7714 -
accuracy: 0.2144
Epoch 6/50
1515/1515 [==============================] - 320s 211ms/step - loss: 4.3651 -
accuracy: 0.2399
Epoch 7/50
1515/1515 [==============================] - 326s 215ms/step - loss: 3.9745 -
accuracy: 0.2790
Epoch 8/50
1515/1515 [==============================] - 338s 223ms/step - loss: 3.6045 -
accuracy: 0.3259
Epoch 9/50
1515/1515 [==============================] - 332s 219ms/step - loss: 3.2551 -
accuracy: 0.3784
Epoch 10/50
1515/1515 [==============================] - 319s 210ms/step - loss: 2.9374 -
accuracy: 0.4307
Epoch 11/50
1515/1515 [==============================] - 322s 213ms/step - loss: 2.6504 -
accuracy: 0.4824
Epoch 12/50
1515/1515 [==============================] - 323s 213ms/step - loss: 2.3963 -
accuracy: 0.5300
Epoch 13/50
1515/1515 [==============================] - 319s 211ms/step - loss: 2.1691 -
accuracy: 0.5716
Epoch 14/50
1515/1515 [==============================] - 318s 210ms/step - loss: 1.9676 -
accuracy: 0.6090
Epoch 15/50
1515/1515 [==============================] - 322s 212ms/step - loss: 1.7888 -
accuracy: 0.6439
Epoch 16/50
1515/1515 [==============================] - 319s 210ms/step - loss: 1.6301 -
accuracy: 0.6749
Epoch 17/50
```

```
1515/1515 [==============================] - 320s 211ms/step - loss: 1.4913 -
accuracy: 0.7022
Epoch 18/50
1515/1515 [==============================] - 319s 211ms/step - loss: 1.3687 -
accuracy: 0.7257
Epoch 19/50
1515/1515 [==============================] - 320s 211ms/step - loss: 1.2614 -
accuracy: 0.7484
Epoch 20/50
1515/1515 [==============================] - 316s 208ms/step - loss: 1.1654 -
accuracy: 0.7659
Epoch 21/50
1515/1515 [==============================] - 321s 212ms/step - loss: 1.0842 -
accuracy: 0.7801
Epoch 22/50
1515/1515 [==============================] - 320s 211ms/step - loss: 1.0130 -
accuracy: 0.7953
Epoch 23/50
1515/1515 [==============================] - 319s 211ms/step - loss: 0.9488 -
accuracy: 0.8062
Epoch 24/50
1515/1515 [==============================] - 322s 213ms/step - loss: 0.8979 -
accuracy: 0.8151
Epoch 25/50
1515/1515 [==============================] - 323s 213ms/step - loss: 0.8505 -
accuracy: 0.8241
Epoch 26/50
1515/1515 [==============================] - 317s 209ms/step - loss: 0.8121 -
accuracy: 0.8295
Epoch 27/50
1515/1515 [==============================] - 320s 212ms/step - loss: 0.7763 -
accuracy: 0.8363
Epoch 28/50
1515/1515 [==============================] - 318s 210ms/step - loss: 0.7480 -
accuracy: 0.8407
Epoch 29/50
1515/1515 [==============================] - 320s 211ms/step - loss: 0.7235 -
accuracy: 0.8435
Epoch 30/50
1515/1515 [==============================] - 321s 212ms/step - loss: 0.7021 -
accuracy: 0.8457
Epoch 31/50
1515/1515 [==============================] - 324s 214ms/step - loss: 0.6825 -
accuracy: 0.8474
Epoch 32/50
1515/1515 [==============================] - 319s 211ms/step - loss: 0.6677 -
accuracy: 0.8501
Epoch 33/50
```

```
1515/1515 [==============================] - 322s 212ms/step - loss: 0.6543 -
accuracy: 0.8513
Epoch 34/50
1515/1515 [==============================] - 321s 212ms/step - loss: 0.6436 -
accuracy: 0.8520
Epoch 35/50
1515/1515 [==============================] - 319s 211ms/step - loss: 0.6332 -
accuracy: 0.8531
Epoch 36/50
1515/1515 [==============================] - 322s 213ms/step - loss: 0.6251 -
accuracy: 0.8543
Epoch 37/50
1515/1515 [==============================] - 322s 212ms/step - loss: 0.6179 -
accuracy: 0.8530
Epoch 38/50
1515/1515 [==============================] - 319s 210ms/step - loss: 0.6096 -
accuracy: 0.8549
Epoch 39/50
1515/1515 [==============================] - 322s 212ms/step - loss: 0.6050 -
accuracy: 0.8545
Epoch 40/50
1515/1515 [==============================] - 318s 210ms/step - loss: 0.6004 -
accuracy: 0.8547
Epoch 41/50
1515/1515 [==============================] - 322s 213ms/step - loss: 0.5946 -
accuracy: 0.8554
Epoch 42/50
1515/1515 [==============================] - 322s 212ms/step - loss: 0.5923 -
accuracy: 0.8552
Epoch 43/50
1515/1515 [==============================] - 322s 213ms/step - loss: 0.5880 -
accuracy: 0.8559
Epoch 44/50
1515/1515 [==============================] - 321s 212ms/step - loss: 0.5837 -
accuracy: 0.8547
Epoch 45/50
1515/1515 [==============================] - 314s 207ms/step - loss: 0.5810 -
accuracy: 0.8559
Epoch 46/50
1515/1515 [==============================] - 322s 213ms/step - loss: 0.5789 -
accuracy: 0.8553
Epoch 47/50
1515/1515 [==============================] - 332s 219ms/step - loss: 0.5760 -
accuracy: 0.8559
Epoch 48/50
1515/1515 [==============================] - 340s 225ms/step - loss: 0.5738 -
accuracy: 0.8557
Epoch 49/50
```

```
1515/1515 [==============================] - 320s 211ms/step - loss: 0.5717 -
accuracy: 0.8552
Epoch 50/50
1515/1515 [==============================] - 321s 212ms/step - loss: 0.5715 -
accuracy: 0.8555
<keras.src.engine.sequential.Sequential object at 0x7a671fd74d00>
```

5 Next Word Prediction

```python
[47]: text = "Hands"

for i in range(5):
  token_text = tokenizer.texts_to_sequences([text])[0]
  padded_token_text =pad_sequences([token_text], maxlen = 39, padding='pre')
  pos = np.argmax(model.predict(padded_token_text,verbose=0))

  for word, index in tokenizer.word_index.items():
    if index == pos:
      text = text + ' ' + word


print(text)
```

Hands on graph neural networks with

```python
[48]: text = "Customer"

for i in range(10):
  token_text = tokenizer.texts_to_sequences([text])[0]
  padded_token_text =pad_sequences([token_text], maxlen = 39, padding='pre')
  pos = np.argmax(model.predict(padded_token_text,verbose=0))

  for word, index in tokenizer.word_index.items():
    if index == pos:
      text = text + ' ' + word


print(text)
```

Customer service done right just a service in the age of

lets try one which is not available in the given data

```python
[50]: text = "whats your"

for i in range(10):
  token_text = tokenizer.texts_to_sequences([text])[0]
  padded_token_text =pad_sequences([token_text], maxlen = 39, padding='pre')
```

```python
    pos = np.argmax(model.predict(padded_token_text,verbose=0))

    for word, index in tokenizer.word_index.items():
      if index == pos:
        text = text + ' ' + word


print(text)
```

whats your own data persist plugin for vuex patients family computing anchor