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Back to Artificial Intelligence Nanodegree and Specializations

Recurrent Neural Networks

CODE REVIEW 2 HISTORY

▼ my_answers.py



```
1 import numpy as np
2 import string
4 import keras
5 from keras.layers import Activation, Dense, LSTM
6 from keras.models import Sequential
12 def window_transform_series(series, window_size):
       X = []
      y = []
       for i in range(0, len(series)-window size):
           X.append(series[i:i+window_size])
           y.append(series[i+window_size])
       X = np.asarray(X)
       X.shape = (np.shape(X)[0:2])
      y = np.asarray(y)
24
       y.shape = (len(y), 1)
       return X,y
```

```
# TODO: build an RNN to perform regression on our time series input/output data
def build_partl_RNN(window_size):
    model = Sequential()
    model.add(LSTM(5, input_shape=(window_size, 1)))
    model.add(Dense(1))

return model

return model

## TODO: return the text input with only ascii lowercase and the punctuation of the def cleaned_text(text):
    punctuation = ['!', ',', '.', ':', '?']

## combine alphabet chars and allowed punctuation
a2z = list(string.ascii_lowercase)
ok_chars = set(punctuation + a2z + [' '])

## identify chars to remove and replace them
all_chars = set(text)
chars_to_remove = all_chars - ok_chars

for c in chars_to_remove:
    text = text.replace(c, ' ')
```

AWESOME

Simple, easy to understand way to do this.

```
print("{} characters removed from text.".format(len(chars_to_remove)))
print(chars_to_remove)

return text

return text

return text

fromat(len(chars_to_remove)))

return text

retu
```

SUGGESTION

For future reference, take a look at the other optional parameters that range has.

```
range(start, stop[, step])
```

https://docs.python.org/3/library/functions.html#func-range

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```
return inputs, outputs

return
```

RETURN TO PATH

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