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# Recurrent Neural Networks

## REVIEW

## CODE REVIEW 2

## HISTORY

### Meets Specifications

Great job getting everything all figured out and using the GPU. So much faster.

### Project completed!

Heres a silly example of a huge dataset trained a bunch. A fellow Udacity student trained an RNN on the game of thrones book to generate the next chapters in the book.

[https://motherboard.vice.com/en\\_us/article/evvq3n/game-of-thrones-winds-of-winter-neural-network](https://motherboard.vice.com/en_us/article/evvq3n/game-of-thrones-winds-of-winter-neural-network)

Chapters and code here.

<https://github.com/zackthoutt/got-book-6/tree/master/generated-book-v1>

### Files Submitted



The submission includes all required file RNN\_project\_student\_version.ipynb All code must be written ONLY in the TODO sections and no previous code should be modified.

### Step 1: Implement a function to window time series



The submission returns the proper windowed version of input time series of proper dimension listed in the notebook.

Correct!

## Step 2: Create a simple RNN model for regression



The submission constructs an RNN model in keras with LSTM module of dimension defined in the notebook.

Correct!

## Step 3: Clean up a large text corpus



The submission removes all non-english / non-punctuation characters. (English characters should include `string.ascii_lowercase` and punctuation includes [' ', '!', ',', '.', ':', ';', '?'] (space, exclamation mark, comma, period, colon, semicolon, question mark))

Correct!

## Step 4: Implement a function to window a large text corpus



The submission returns the proper windowed version of input text of proper dimension listed in the notebook.

Correct!

## Step 5: Create an RNN perform multiclass



The submission constructs an RNN model in keras with LSTM module of dimension defined in the notebook.

Correct!

## Step 6: Generate text using a fully trained RNN



The submission presents examples of generated text from a trained RNN module. The majority of this generated text should consist of real english words.

Doesn't make any sense but definitely mostly English.

```
input chars =  
er excellent for drawing the veil from men s motives and actions. but for the  
trained reasoner to ad"
```

```
predicted chars =  
vertisement. have come that i have not seen his bring an looked upon his ha  
nd, and then with a pre"
```

-----

```
input chars =  
en cocaine and ambition, the drowsiness of the drug, and the fierce energy of  
his own keen nature. h"
```

```
predicted chars =  
e was a lown enterupain surels ar which i had to note in the cases, and the l  
ight was stracted of a "
```

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[CODE REVIEW COMMENTS](#)



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