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PROJECT

Recurrent Neural Networks

A part of the Artificial Intelligence Nanodegree Program

PROJECT REVIEW CODE REVIEW NOTES

Meets Specifications

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Kudos! I think you've done a perfect job of implementing a recurrent neural net fully. It's very clear that you have a good understanding of the basics. Keep improving and keep learning.

As it appears, you have some idea of LSTMs & RNNs, here's a very popular blog that might help you in visually understanding further details.

Advanced tips for improving net results

- Try and use deeper architectures, which have general tendency to blow up or vanish the gradients so there's a net architecture known as Residual Nets, used to circumnavigate the issues with deeper architectures Rate this review
- Try using more fully connected layers or Bi-Directional LSTMs or GRUs to make the predictions even better
- Try and use more sophisticated methods like | lemmatisation | and | stemming | to create a more pruned vocabu look at the NLTK library to understand more operations

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> If you are keen on learning a bit more into what Natural Language Scientists use regularly in their nets. Try reading up a bit more on

- Word2Vec Algorithm
- Glove Algorithm
- Sequence2Sequence tutorial

Keep up the good work!

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.

The implemented function looks great and works perfectly and is concise!

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.

Great job here in constructing a small and functional LSTM based RNN which seems to do a good job at the prediction as both the errors are less than 0.02

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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, eclamation mark, comma, period, colon, semicolon, question mark))

Nice and clean job here as well. The clean up functions seems to be working fine.

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.

Step 5: Create an RNN perform multiclass

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

Great! This is working as expected - fantastic effort at your end. The choice of softmax activation in order to use categorical cross entropy loss was a good idea

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.

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Bravo! I think this implementation outputs perfectly!



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