

PROIECT

Translation From One Language to Another Language

PROJECT REVIEW CODE REVIEW NOTES Meets Specifications y E Excellent work with the project! Congratulations! :) Required Files and Tests All the unit tests in project have passed. Preprocessing The function text_to_ids is implemented correctly. Great work! Very concise! Neural Network The function model_inputs is implemented correctly. The function process_decoding_input is implemented correctly Now instead of strided_slice() try to see if you can use something like the follow push_back = target_data[:,:-1] The function encoding_layer is implemented correctly. Nicely done! Especially for adding dropout! Here's a question for you - Do you think dropout should be added to the Basic LSTM cell, like you have, or to the stack of LSTM layers ins Well done! The function decoding_layer_infer is implemented correctly Some suggestions You can define your MultiRNNCell (And related) within the | decoding_scope| itself instead of outside of it.
You can consider initializing your weights and biases for your FC layer as well. Proper initialization of the weights can help with the model convergence too The function seq2seq_model is implemented correctly. Nicely done! Here are a couple of useful resources which can further help you build an intuitive knowledge on the matter part1/ and https://wp.wwu.edu/blogwolf/2017/02/20/seq2seq/ Do check them outt:) Neural Network Training You selected a good number of epochs. We should tend to select the number of epochs such that you get allow training loss which reaches kind of a state into much change in value beyond a point.
You selected a good batch size. Smaller batch sizes take too long to train. Larger batch sizes speed up the training but can degrade the quality of the me Here is a useful resource to understand this obtert - http://stats.statesectnangs.com/guestorisn/s164/8/fatraseerl-battn-sze-ss-unmobe-of-terations-to-train - neural-neurobe-of-terations-to-train - neural-neurobe-of-terations-to-train - neural-neurobe-of-terations-to-train - you think you need such a relatively large model for this dataset?

You can consider lowering your embedding sizes, since for this dataset?

You can consider lowering your embedding sizes, since for this dataset and vocab size you don't require relatively large embedding sizes. Since for this dataset and vocab size you don't require relatively large embedding sizes.

Select a learning rate so that your model converges well, and there a ren't many oscillations/spikes in your training loss as the training progresses. Those spikes (increase and decrease in which phapen mostly because the model overshoots the cost function minimum and can't converge property. Currently, your training has some spikes. So you can try to fine-tune your learning rate as well to see if you can minimize that, although it's not required. The project should end with a validation and test accuracy that is at least 90.00% Excellent work! You got a ~96% validation accuracy when I run your model. Really away The function sentence_to_seq is implemented correctly. The project gets majority of the translation correctly. The translation doesn't have to be perfect. Well done! I get the following results when I run your model for a sample sentence. Quite correct! Imput (15, 62, 29, 28, 34, 72, 219, 140, 140, 62, 222, 111, 125, 97, 227)
Inglish kerder [Colifornia, 'is', 'kever', 'cold', 'daring', 'férousp', '\.', 'but', 'is', 'is', 'sometimes', 'freezing', 'is', 'jume', '\.'] Prediction
Noted Disc. [317, 161, 11, 158, 158, 47, 237, 118, 352, 159, 159, 254, 187, 25, 279, 237, 170]
Tench Norder ['californie', 'ne', 'fsit', 'jamais', 'froid', 'en', 'fewier', ',', 'remis', 'll', 'est', 'perfois', 'le', 'gel', 'en', 'jun'] Try it out on the larger dataset now if you can!

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