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Environment : Ubuntu 15.04 64bit, python 2.7, tensorflow r0.10, Nvidia K20C

This work is mostly based on the paper: Attention-based RNN model for Joint Intent Detection and Slot Filling [1]. By using the attention mechanism on the RNN model, it can achieve around 0.94 accuracy on intent detection and 0.95 F1 score on slot filling task without any fine-tuning.

The difficulty part of this work is to transform the data to the input format of the source code as well as the alignment of the input sequence and output sequence (i.e. EOS not appear in the output sequence).

#### References:

[1] Liu, Bing, and Ian Lane. "Attention-Based Recurrent Neural Network Models for Joint Intent Detection and Slot Filling." *InterSpeech* (2016). <https://github.com/HadooplT/rnn-nlu>