Report: Project 3

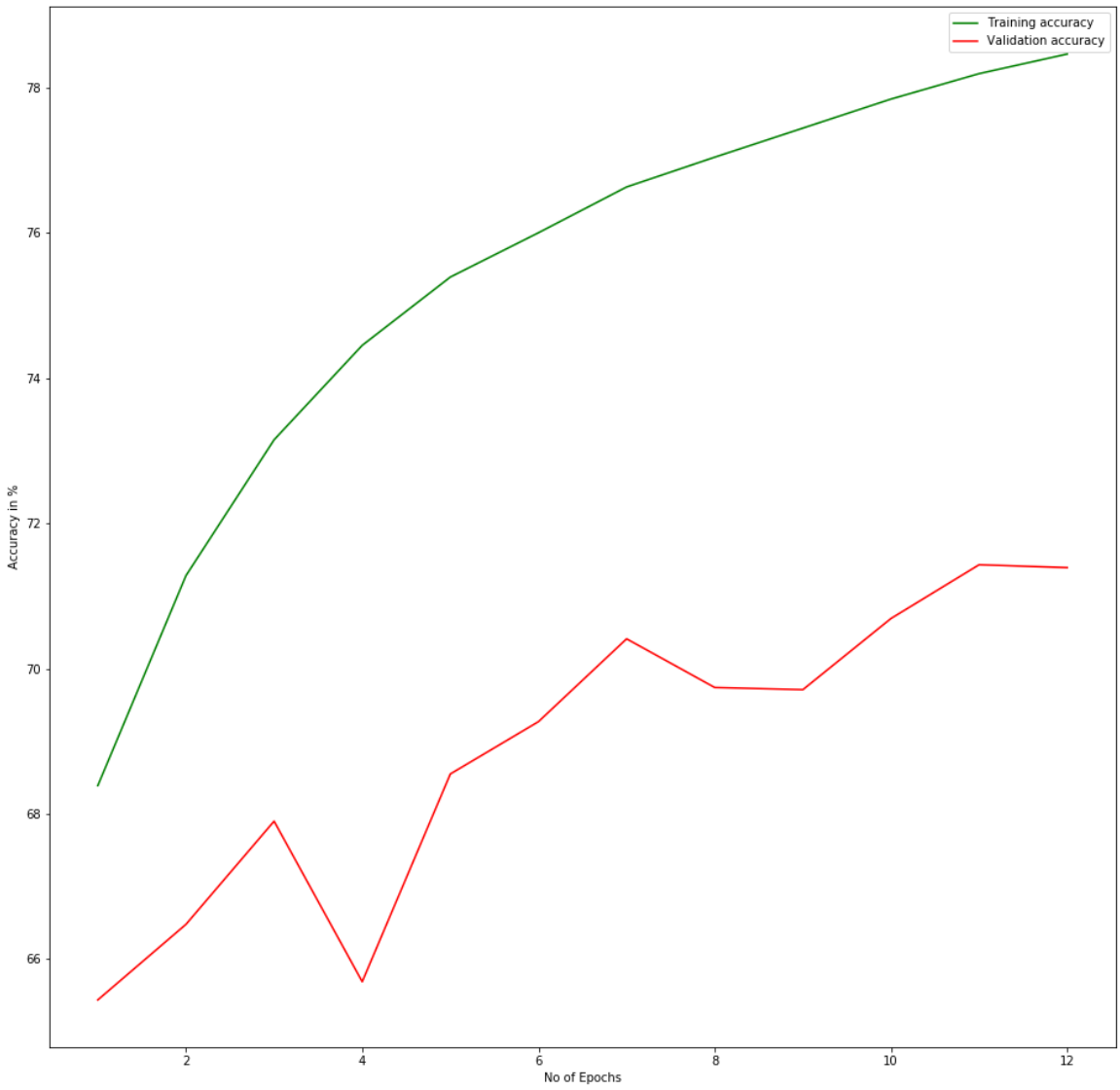
Sentiment Analysis

Model:

First I generate word embedding using GloVe (Global Vectors for Word Representation). Then we apply a TimeDistributed Dense layer as is the convention with rnn based models.

The hypothesis and premise tensors are then passed to a Gated Recurrent Unit layer. Then the premise and hypothesis are merged and finally passed through dense layer with softmax activation to output prediction.

The loss function used is categorical crossentropy.



We can see that the validation accuracy starts getting saturated near 12 epochs. So I decide to iterate for 12 epochs.