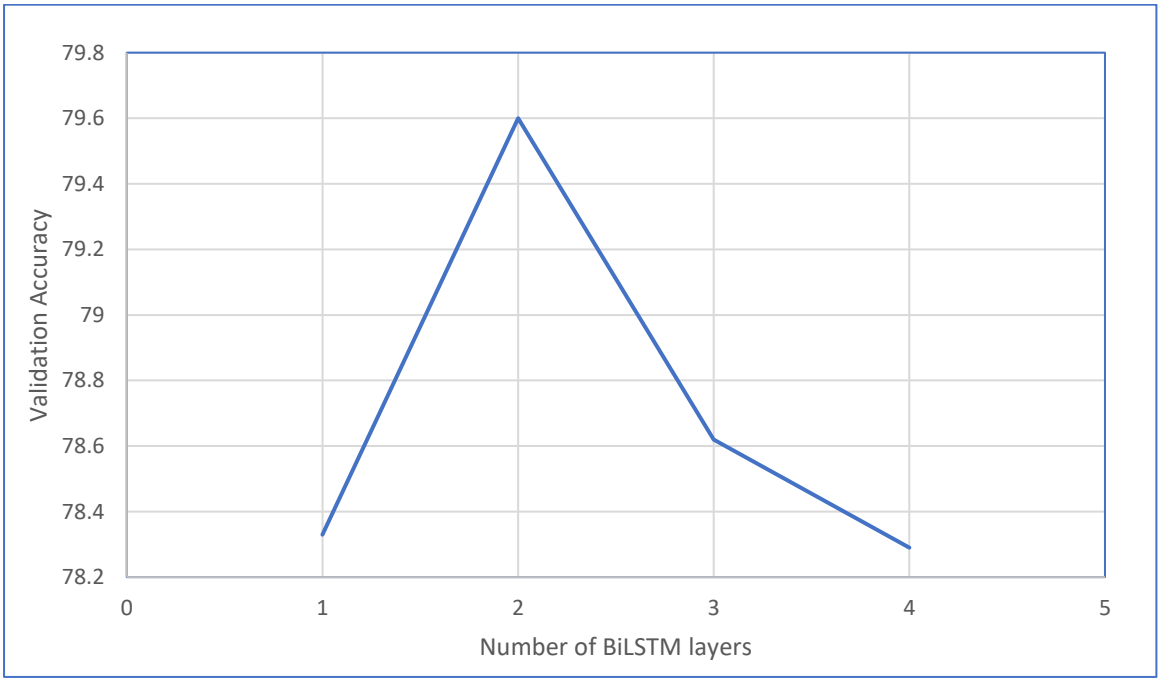
Natural Language Inference on SNLI Dataset

I decided to go with a model with an embedding layer followed by a linear translation layer and then two layers of bi-directional LSTM. After passing the premise and hypothesis through these layers, they were concatenated and then passed through 5 dense layers with dropout.

In the model I chose, using Bidirectional LSTMs are very important. In the chosen number of epochs (15) a model with Non- Bidirectional LSTMs showed no learning with accuracy stagnating in and around 33%

	Validation accuracy
BiLSTM	79.60
LSTM	~33% (NOT LEARNING)

I tried using various number of layers for BiLSTM, and found that accuracy peaked at a 2 layered model.



The model only had to be trained for 15 epochs after which it started to overfit/plateau.