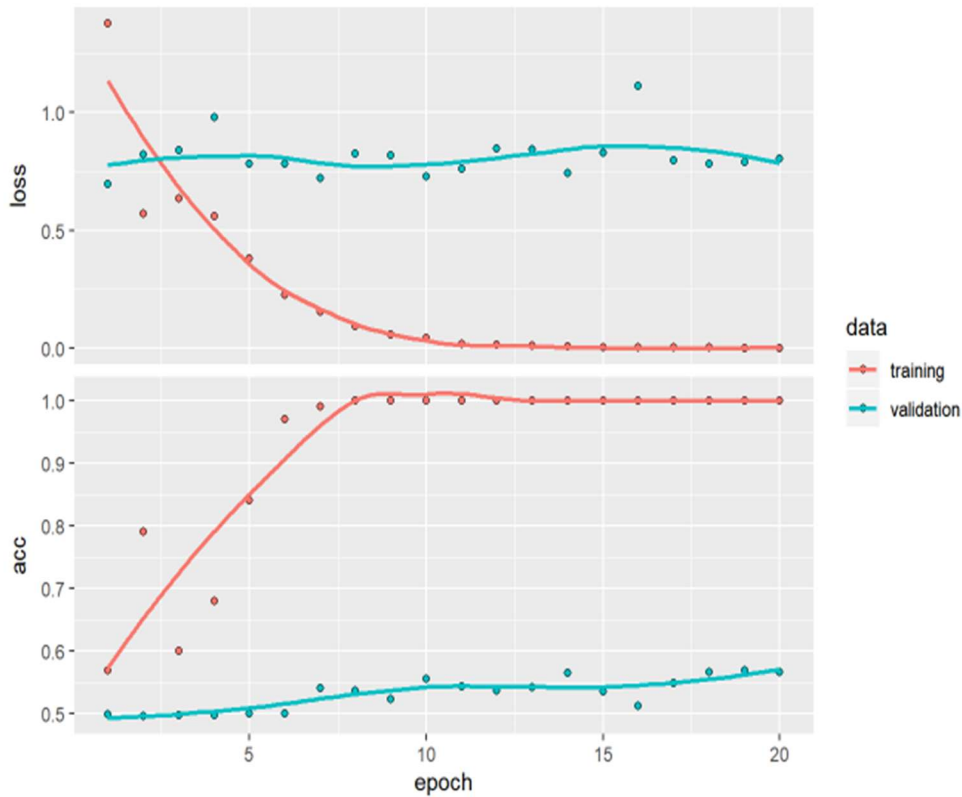# IMDB – RNN

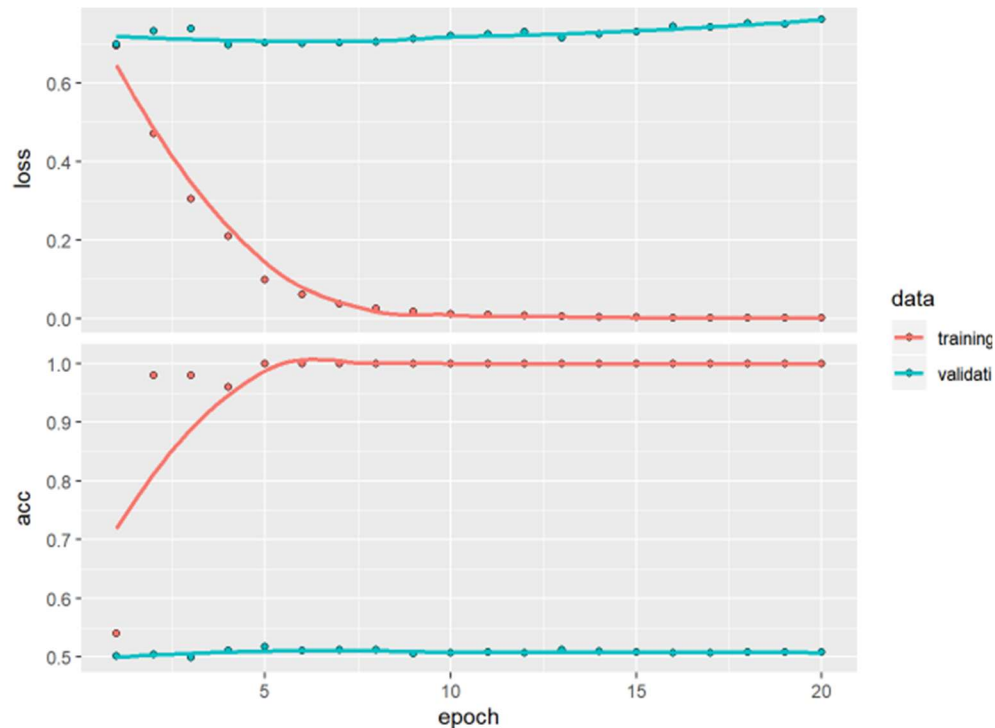**RNN Model** :-

When we build the model with Cutoff reviews after 150 words, restrict training samples to 100, Validate on 10,000 samples and Considering only the top 10,000 words. We observe that validation accuracy is approximately is **56.51**%. Presuming the downgrade of performance is because of a smaller number of samples in training set and more samples in validation data set. Here the model has not seen more features in the data. Hence couldn't perform well on validation dataset.

Building a model with **Pre -Trained Network** :-

Now, considering the parameters of pretrained network. We will try to improve the performance of the model.

So, from above the graph we observe the validation accuracy of the model is 55.81%. Certainly, the model is performing low even with pretrained network parameters. To conclude with, model will not perform well when the training data is less.