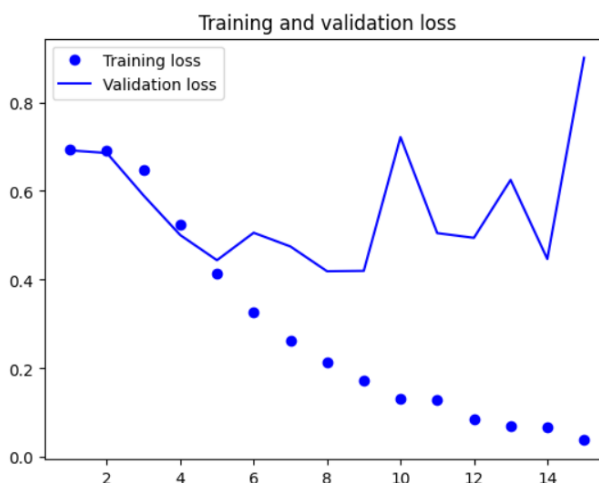
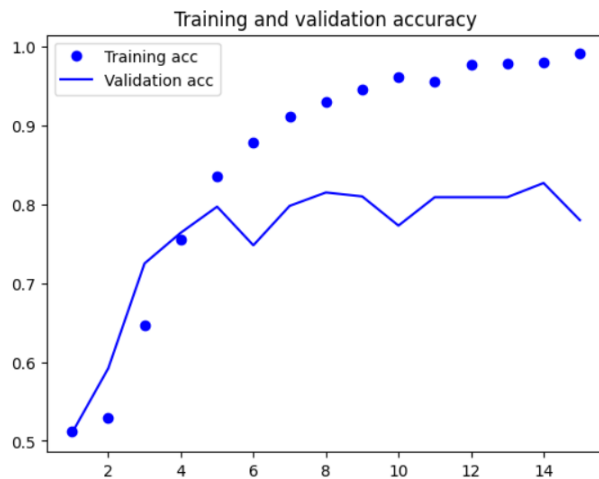


## Assignment - 4

### Summary

Initially, I loaded the IMDB dataset, set the cutoff text length at 150 words, and set the maximum feature count at 10,000 words. After loading all necessary libraries, apply an embedded layer and classifier to the IMDB dataset.

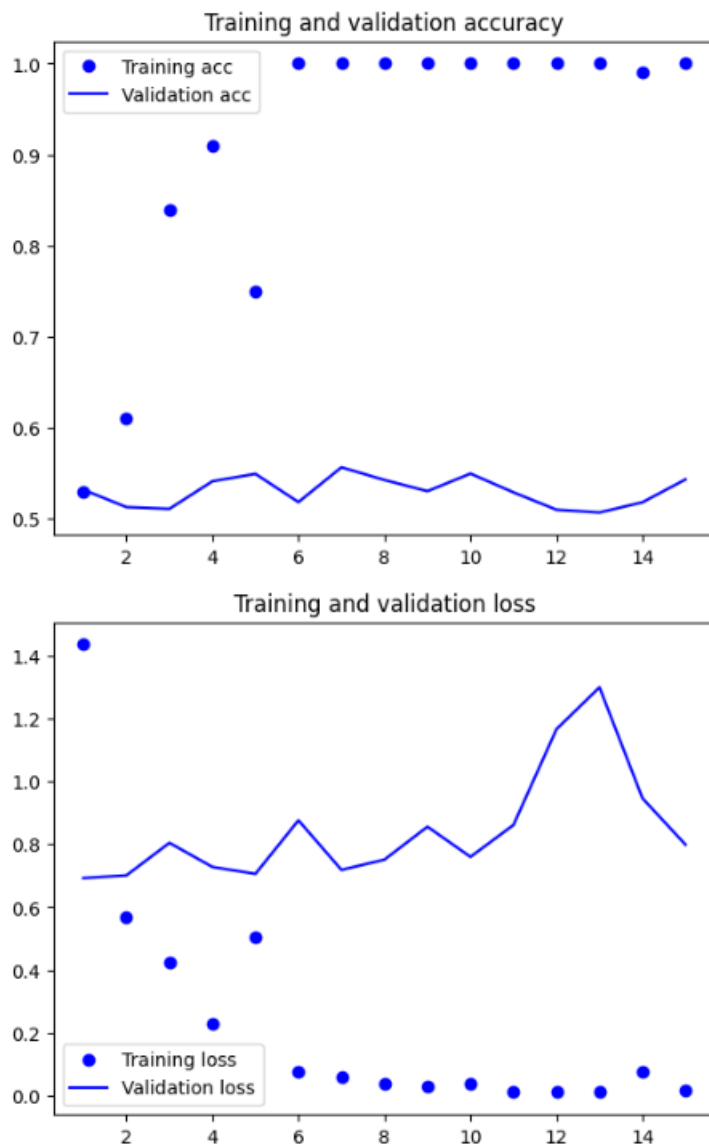
Therefore, Total Parameters = 81201



The above graph has been obtained with an validation accuracy of 51.4% and a validation loss of 69.2%.

GloVe, or Global Vectors for Word Representation, is an unsupervised learning technique that creates vector representations of words based on their co-occurrence statistics in huge text corpora. It employs pretrained word embeddings and tokenizes the data. The data is being obtained from ai.stanford.edu.

evaluated the model after loading the pretrained word embedding into the embedding layer.

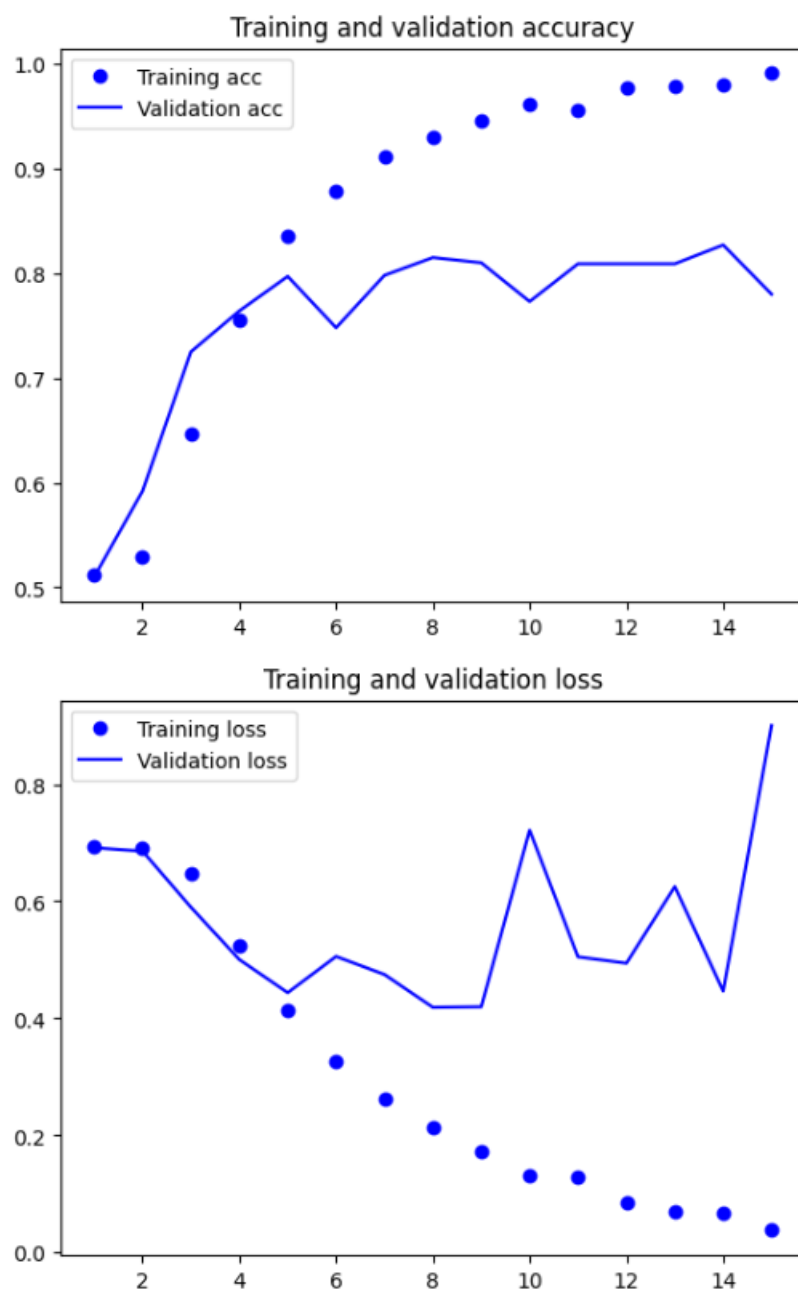


From the above results

Validation Accuracy – 54%

Validation Loss – 79.86%

Now consider an LSTM example and load the IMDB dataset



From the above plot

Validation accuracy – 78%

Validation loss – 90%

The below table shows the accuracy and loss of each model.

Model	Accuracy	Loss
Embedded Layer	51.4%	69.2%
Glove Embedding	54%	79.86%
LSTM	78%	90%