Assignment-04:

**Recurrent Neural network**

**Introduction**:

This report aims to investigate the effects of different hyperparameters on the sentiment analysis model's performance through modifications to the existing IMDB dataset**.**

**Methodology**:

The model is initially trained using 25,000 training samples from the IMDB data set. Movie reviews were limited to the top 10,000 frequently used words, with a 20-word limit. Shape input is received by the embedding layer (1000, 64). carried out numerous tests, altering a single hyperparameter at a time, and noted variations in the modified model's performance