Supplementary Data

All the Accuracy curves have their x-axis corresponding to the Training Dataset size and the y-axis corresponding to the accuracy.

An epoch is the number of times the machine learning mode is passed on the trainning dataset during the learning process.
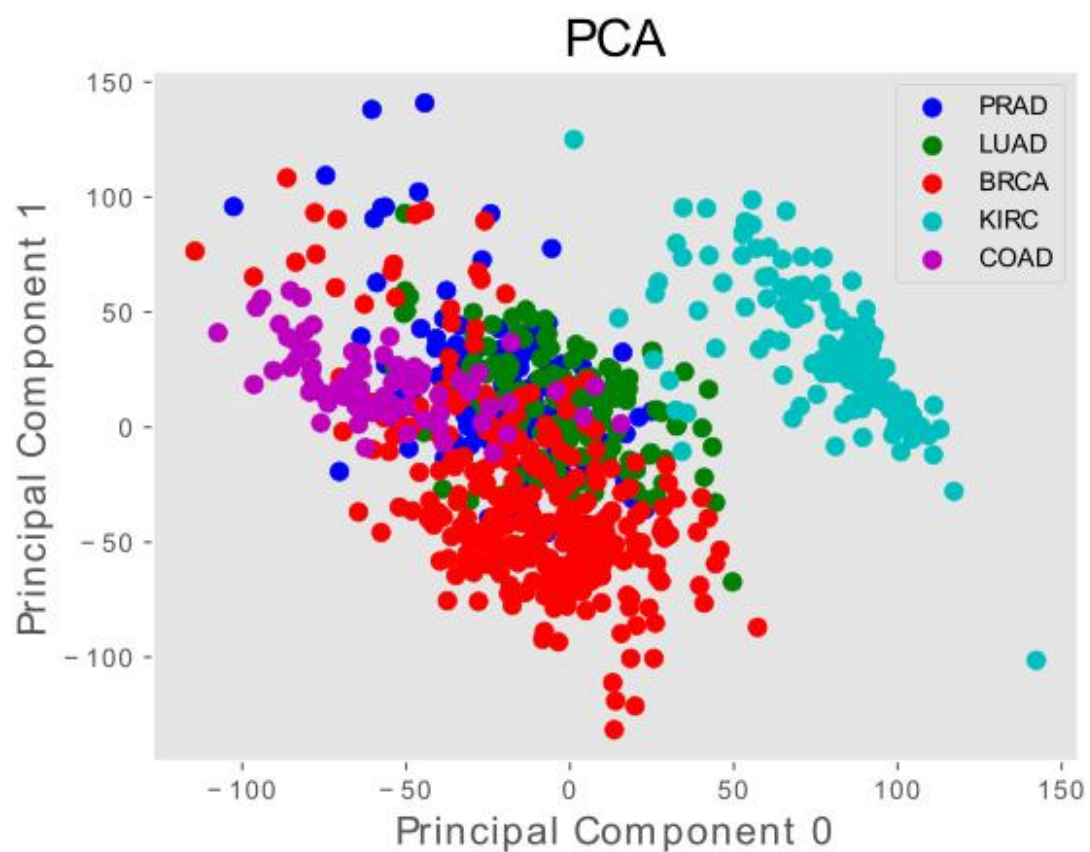

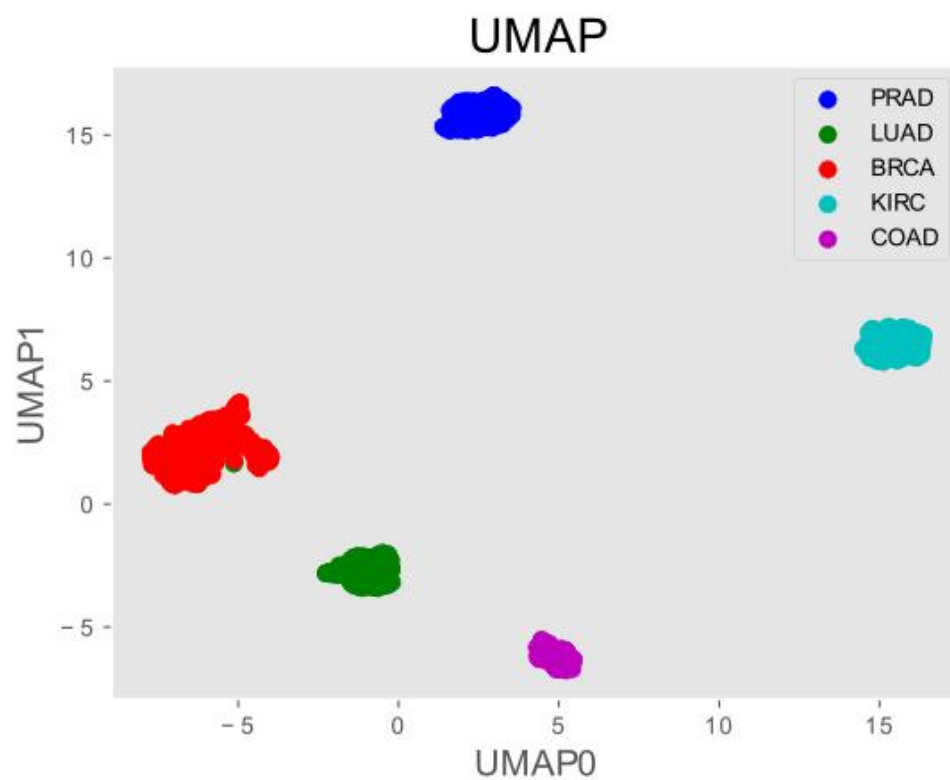Figure 1: PCA Dimension Reduction Technique applied on the Dataset with the First and Second Components

Figure 2: UMAP Dimension Reduction Technique applied on the Dataset
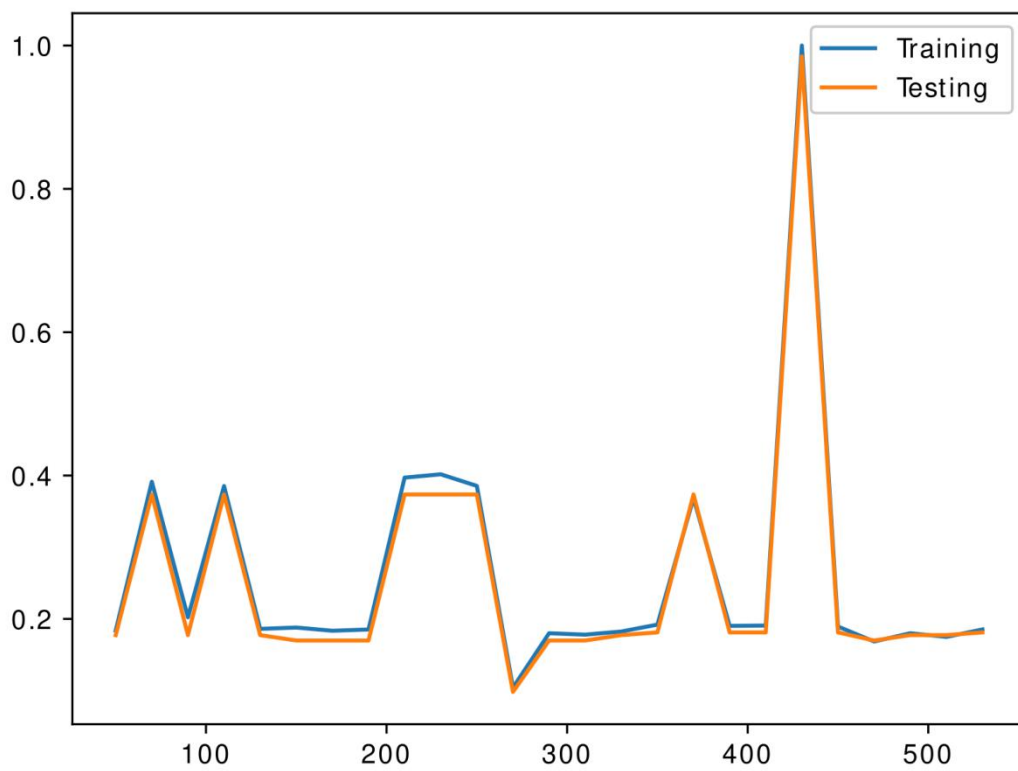
Figure 3: Accuracy Curve for the 4th Neural Network Configuration at the 20th epoch
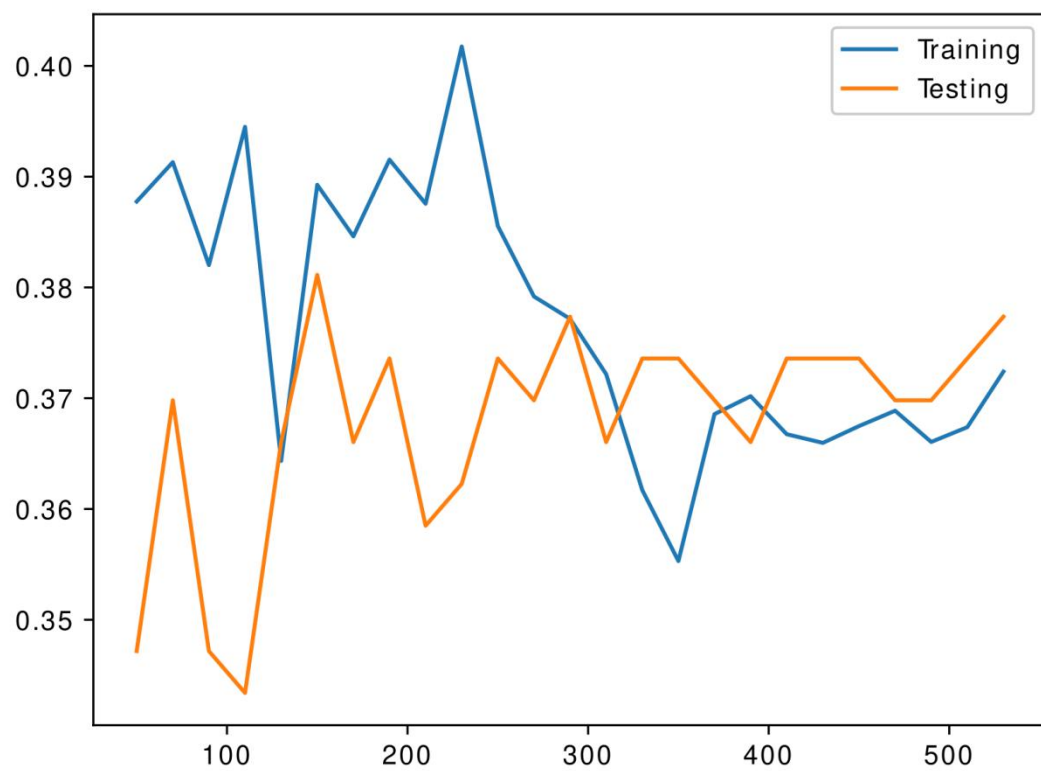
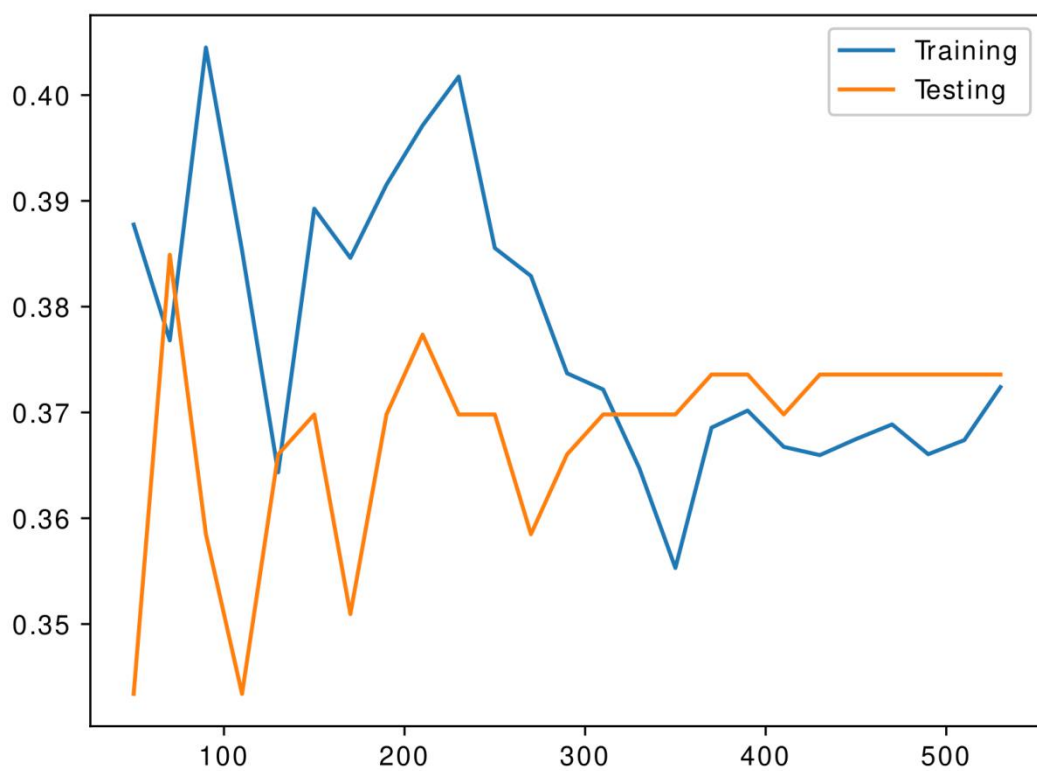*Figure 4: Accuracy Curve for the 6th Neural Network Configuration at the 20th epoch*

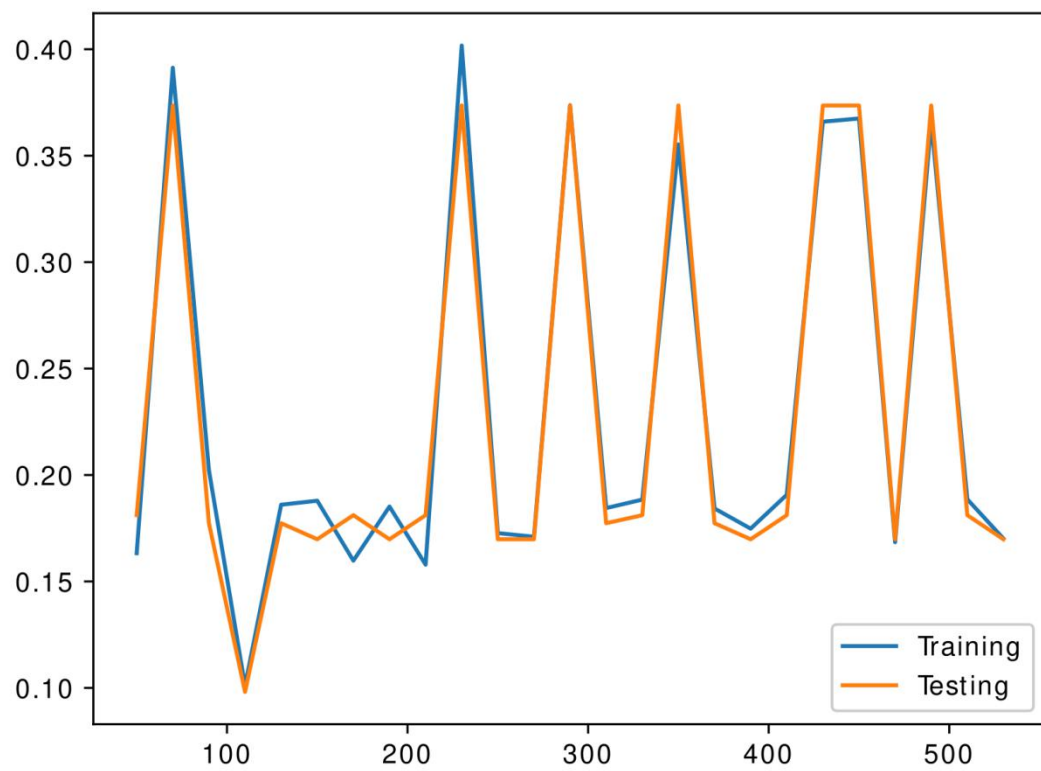*Figure 5: Accuracy Curve for the 5th Neural Network Configuration at the 20th epoch*

Figure 6: Accuracy Curve for the 4th Neural Network Configuration at the 50th epoch
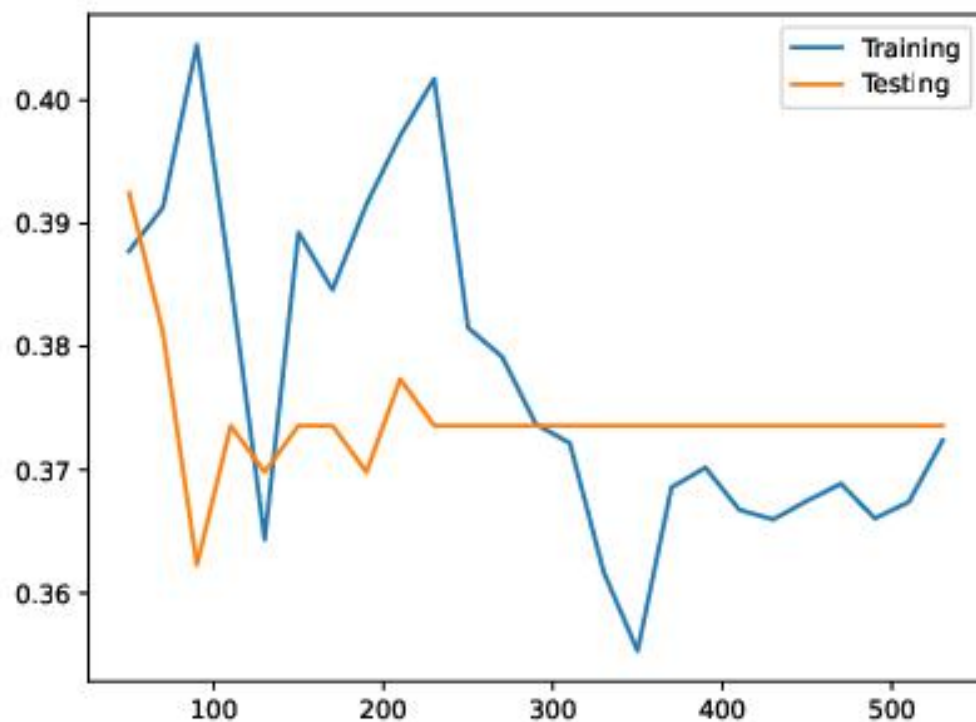
Figure 7: Accuracy Curve for the 6th Neural Network Configuration at the 50th epoch

Figure 8: Accuracy Curve for the 5th Neural Network Configuration at the 50th epoch
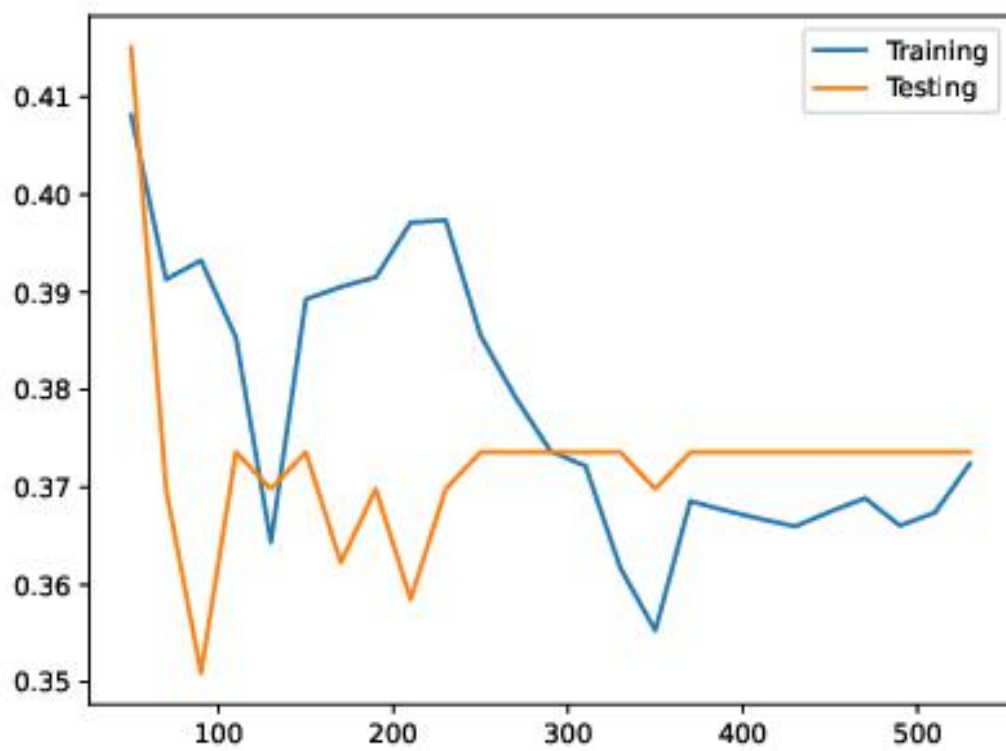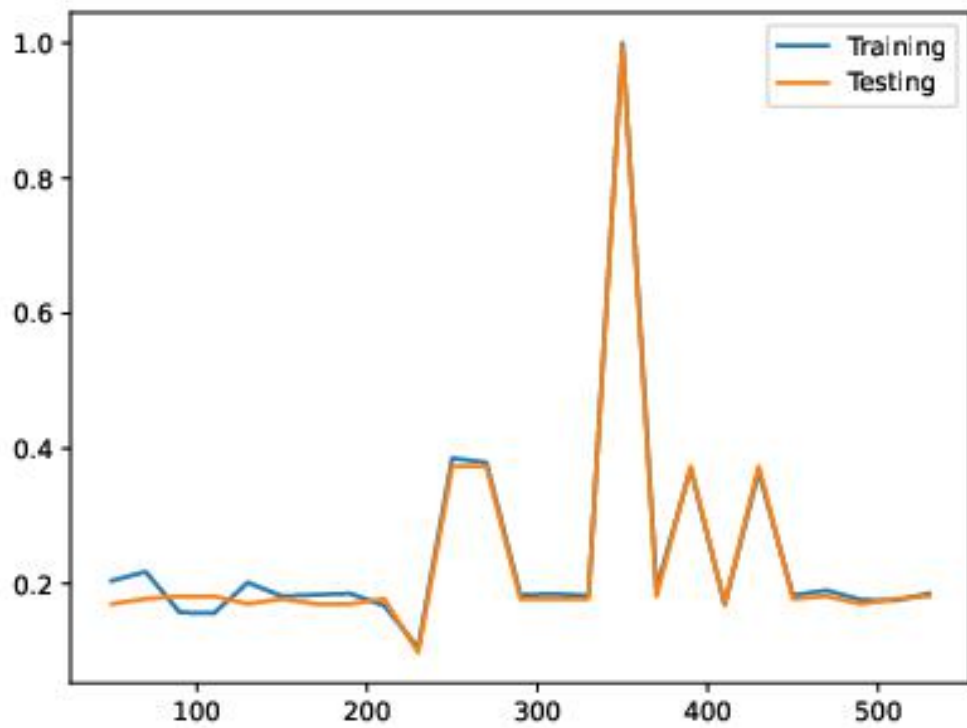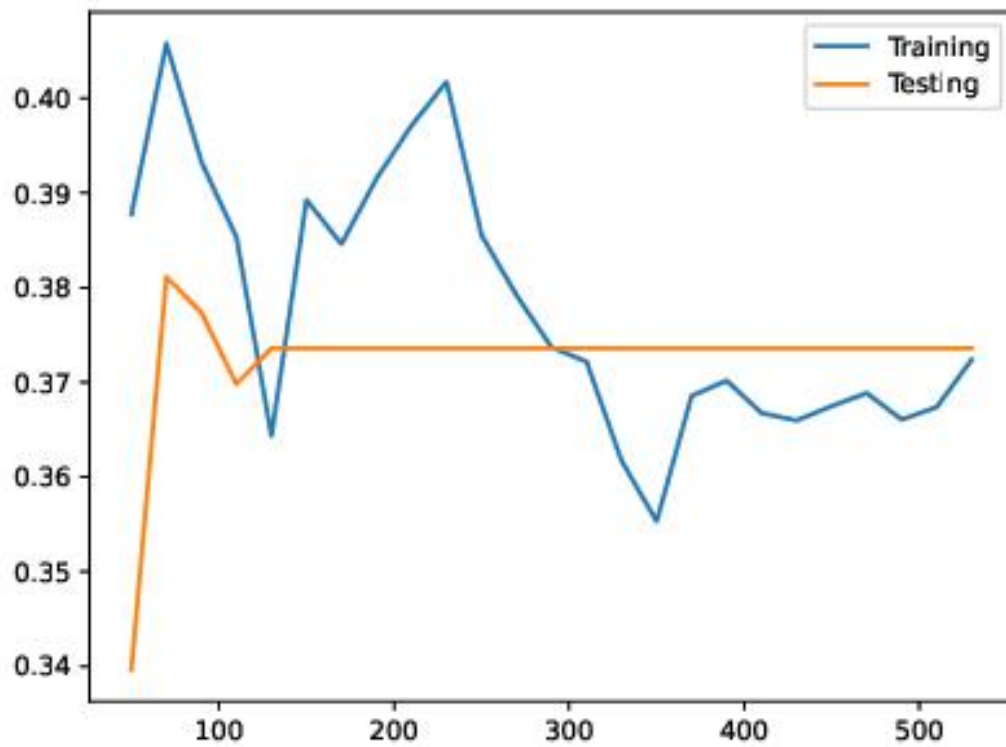
Figure 9: Accuracy Curve for the 4th Neural Network Configuration at the 100th epoch

Figure 10: Accuracy Curve for the 6th Neural Network Configuration at the 100th epoch

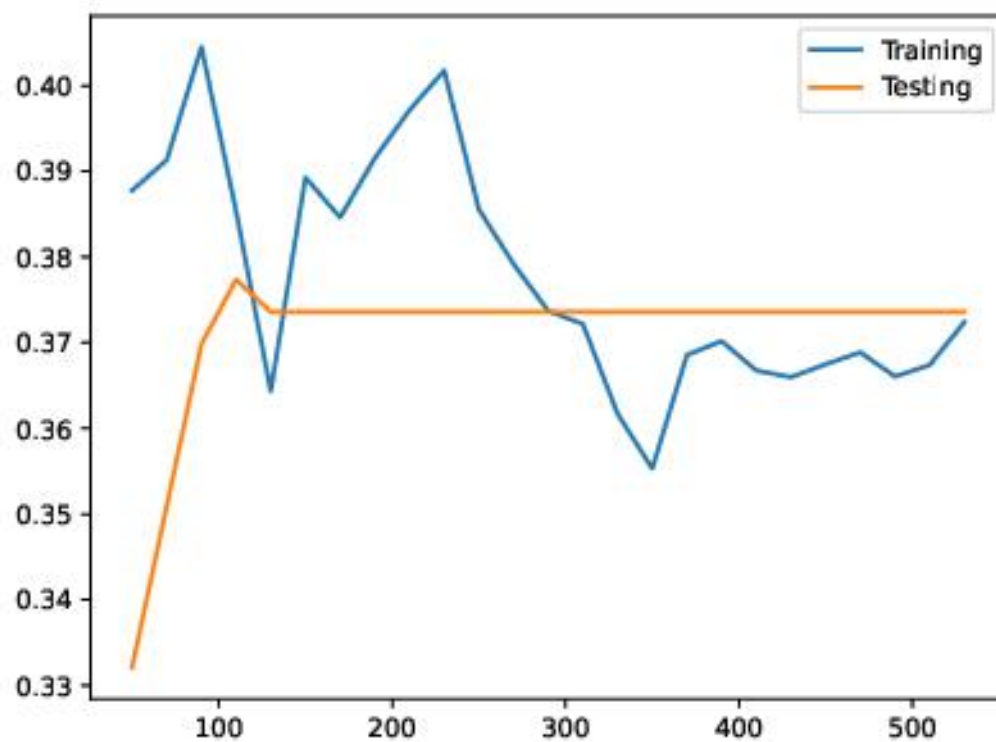*Figure 11: Accuracy Curve for the 5th Neural Network Configuration at the 100th epoch*
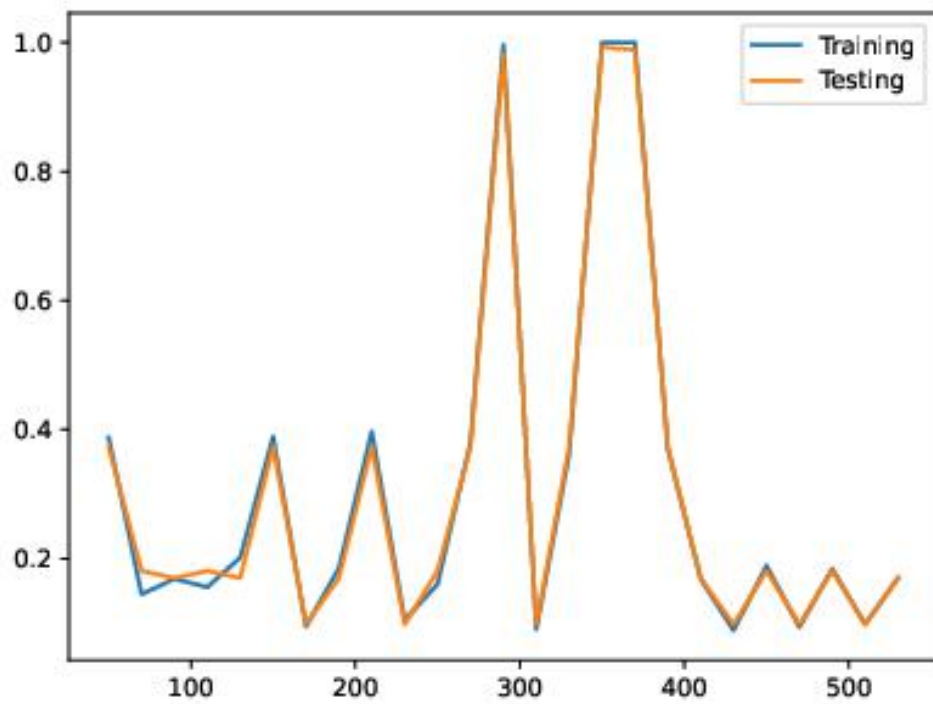
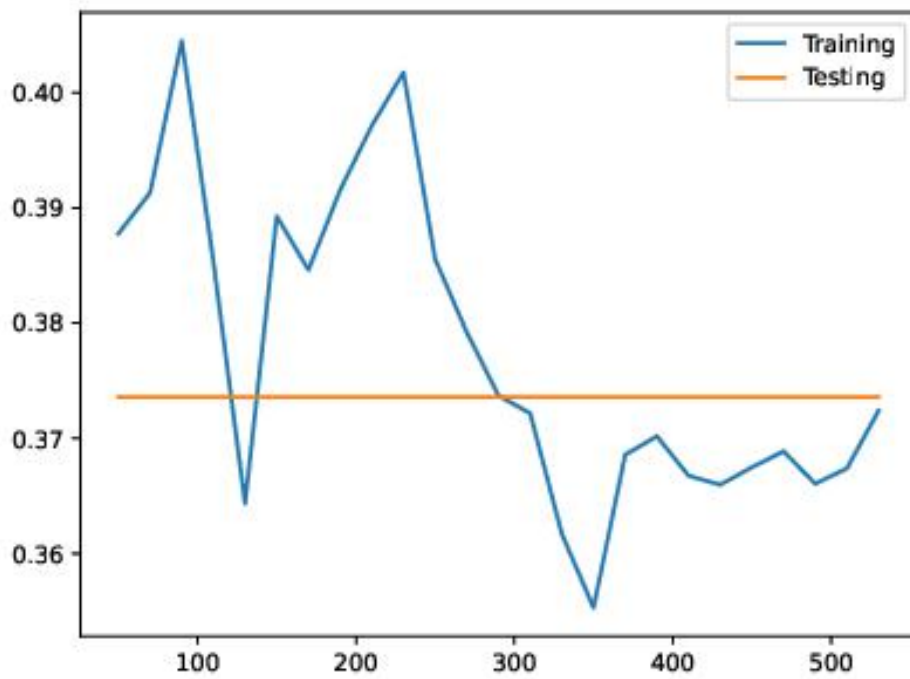*Figure 12: Accuracy Curve for the 1st Neural Network Configuration at the 20th epoch*

Figure 13: Accuracy Curve for the 3rd Neural Network Configuration at the 20th epoch
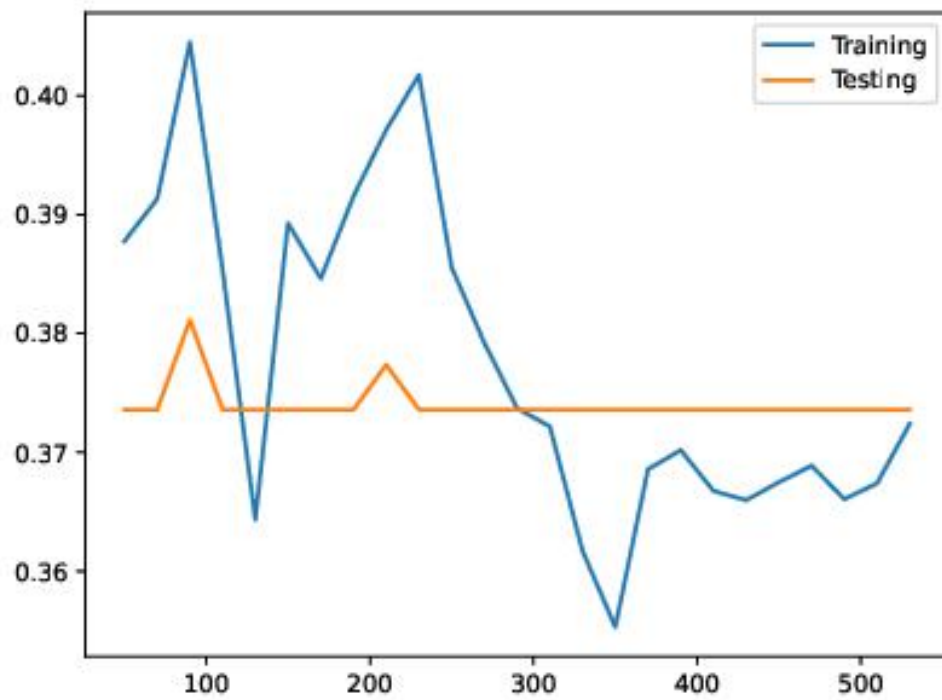
Figure 14: Accuracy Curve for the 2nd Neural Network Configuration at the 20th epoch
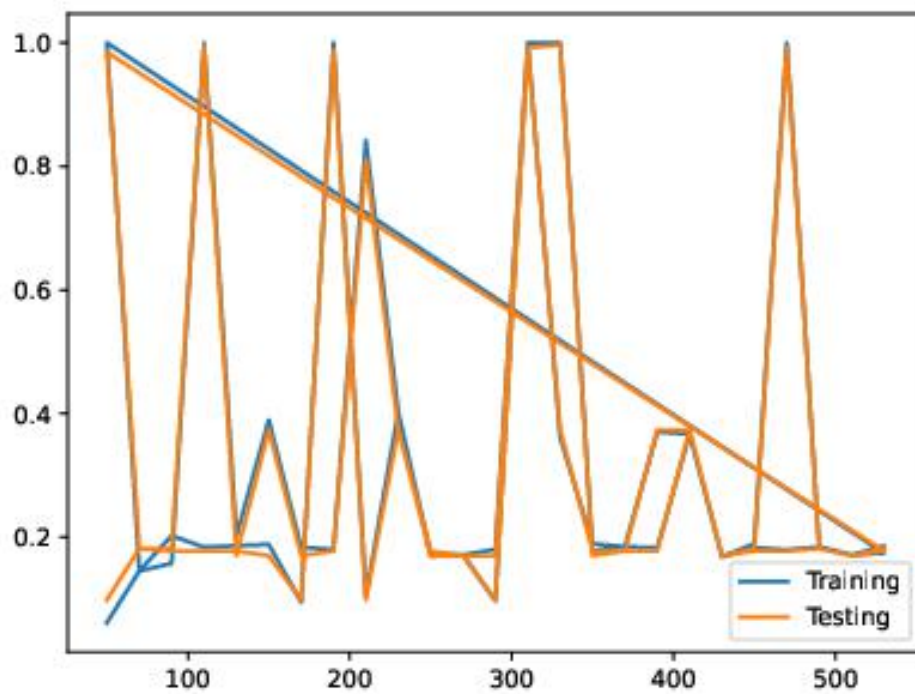
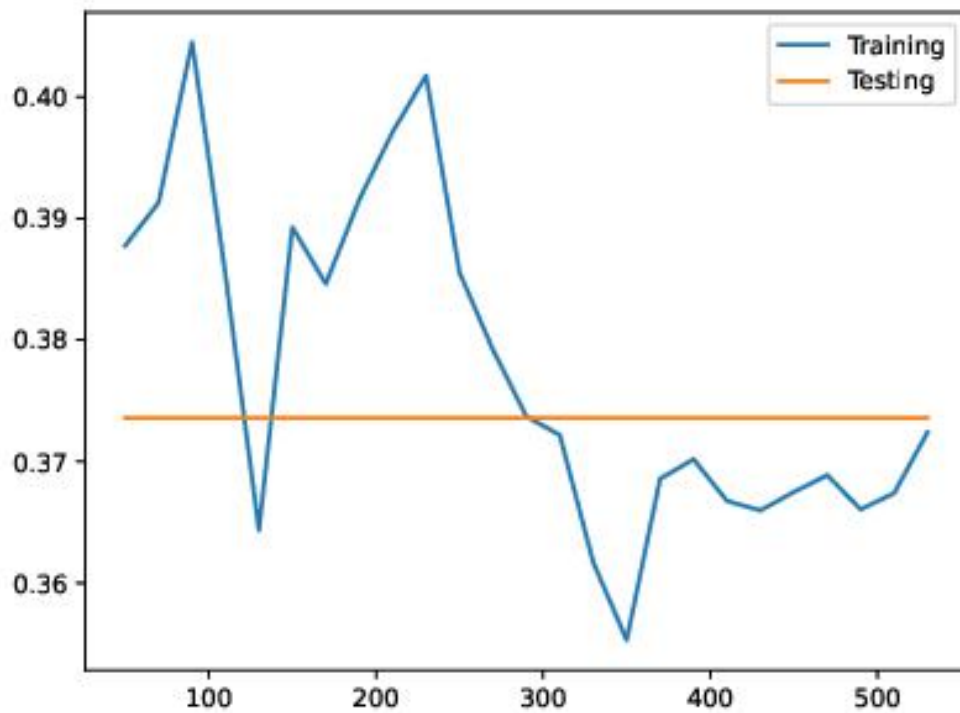*Figure 15: Accuracy Curve for the 1st Neural Network Configuration at the 50th epoch*

Figure 16: Accuracy Curve for the 3rd Neural Network Configuration at the 50th epoch
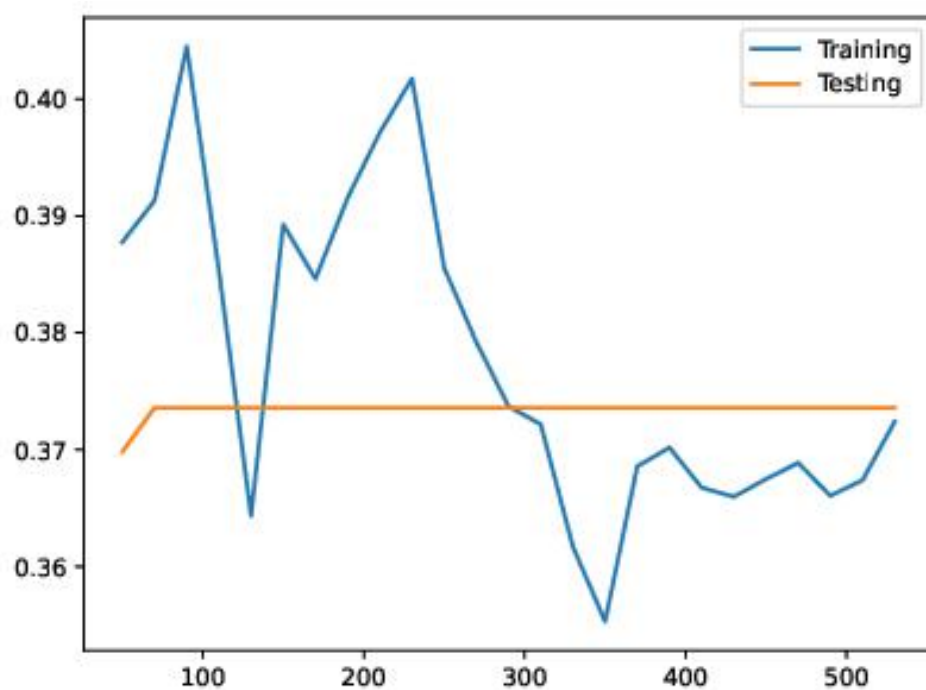
Figure 17: Accuracy Curve for the 2nd Neural Network Configuration at the 50th epoch
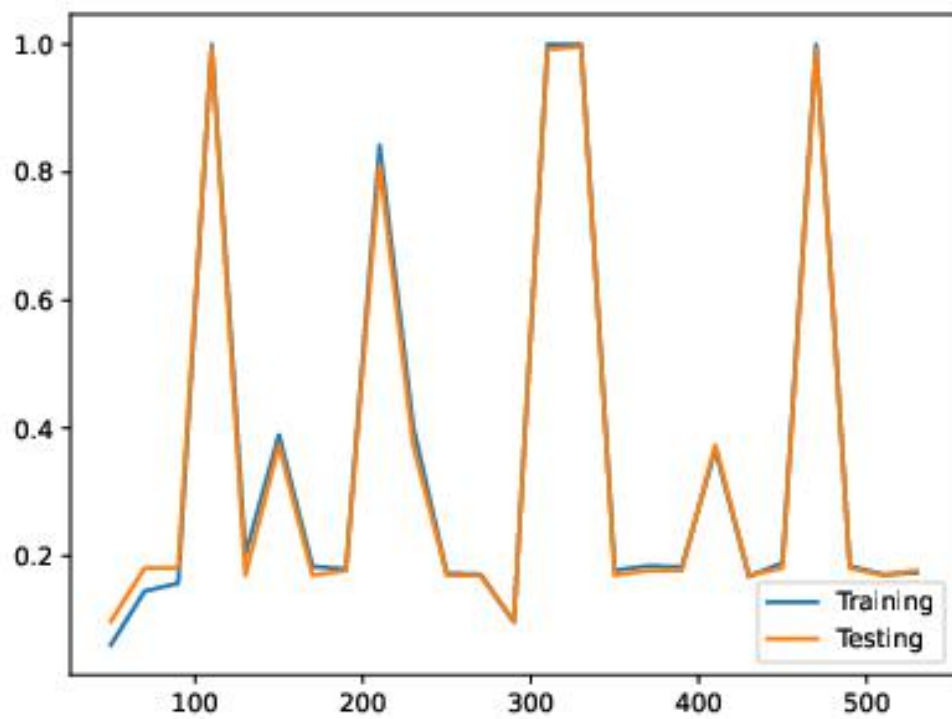
Figure 18: Accuracy Curve for the 1st Neural Network Configuration at the 100th epoch
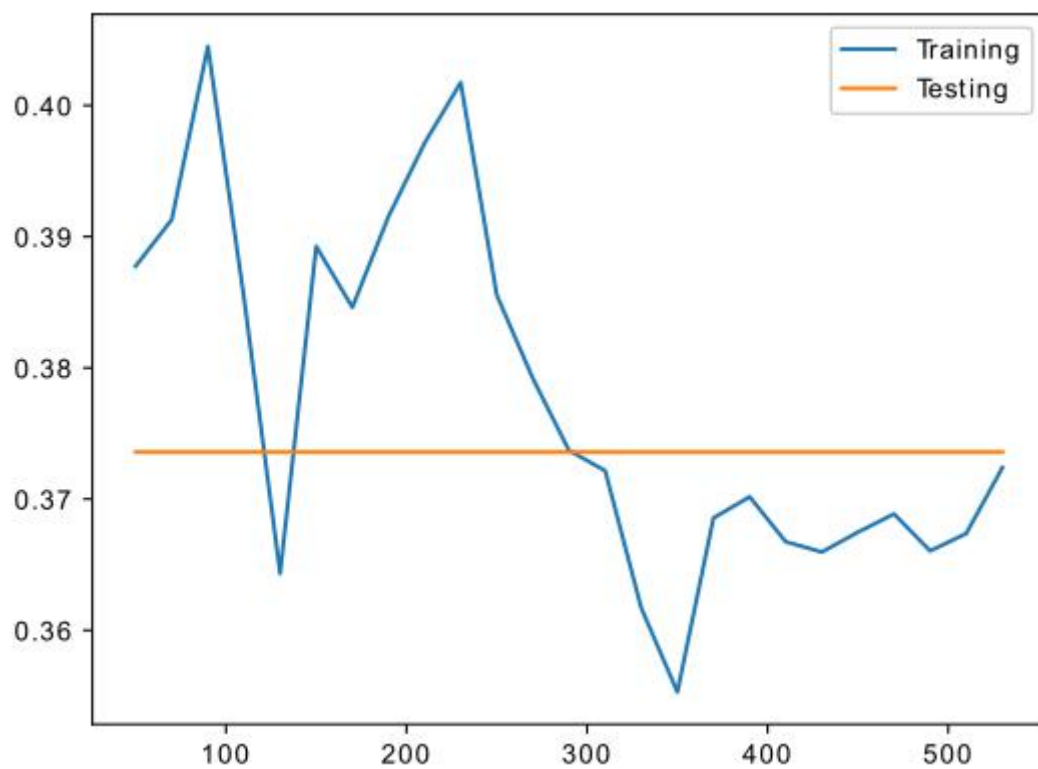
Figure 19: Accuracy Curve for the 3rd Neural Network Configuration at the 100th epoch
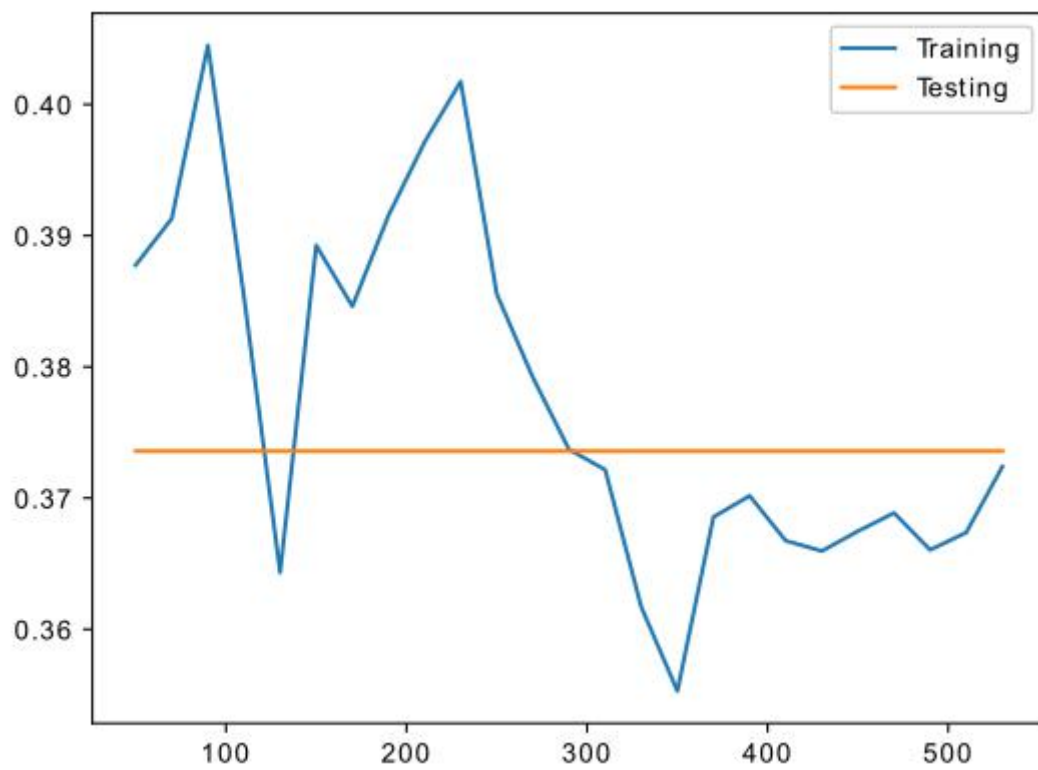
Figure 20: Accuracy Curve for the 2nd Neural Network Configuration at the 100th epoch
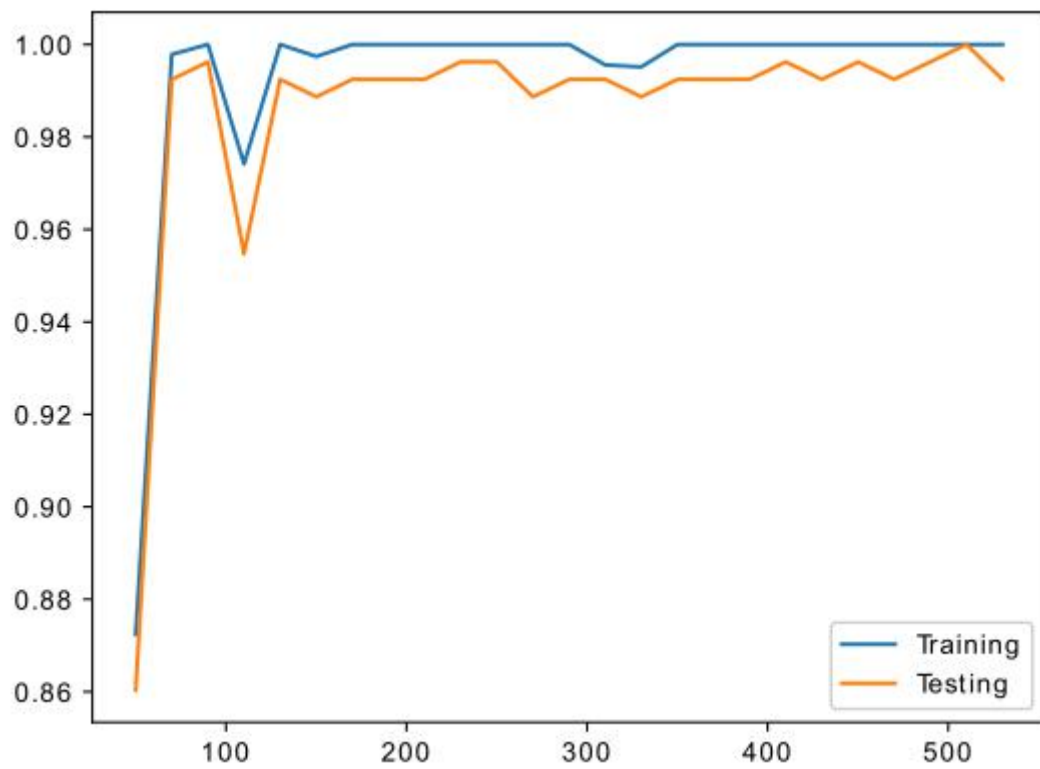
Figure 21: Accuracy Curve for the 7th Neural Network Configuration at the 100th epoch
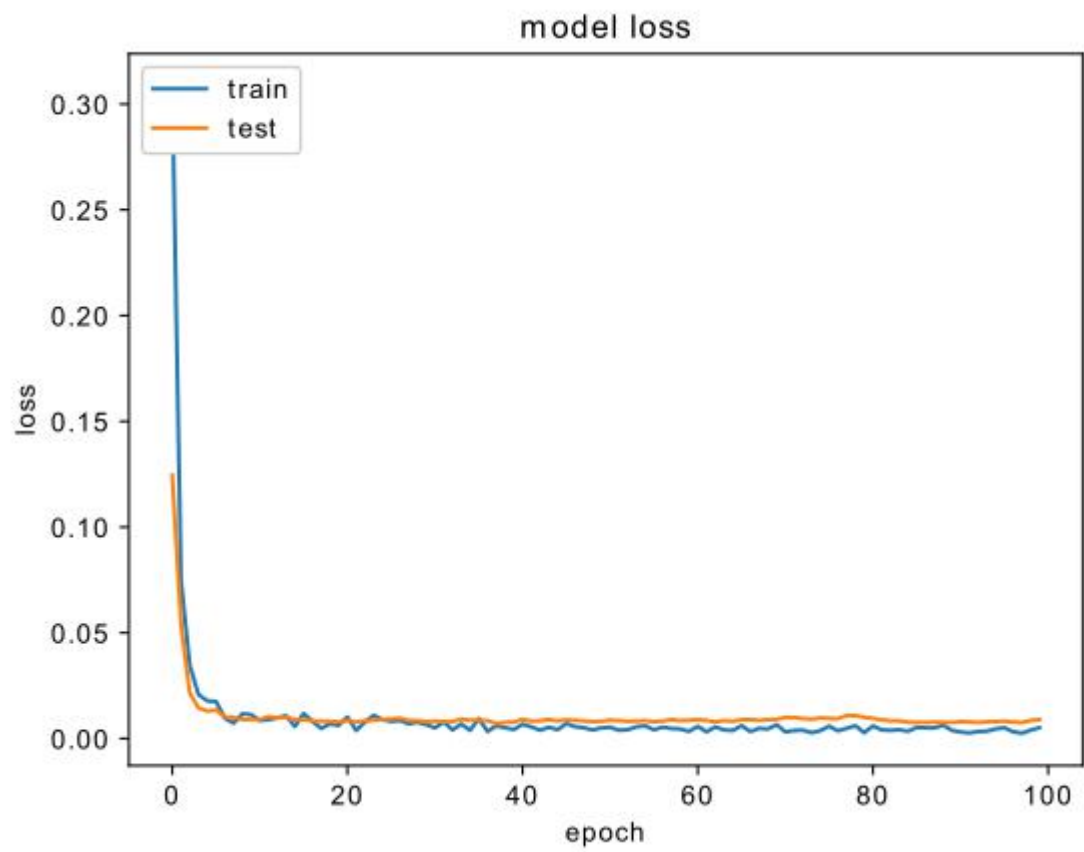
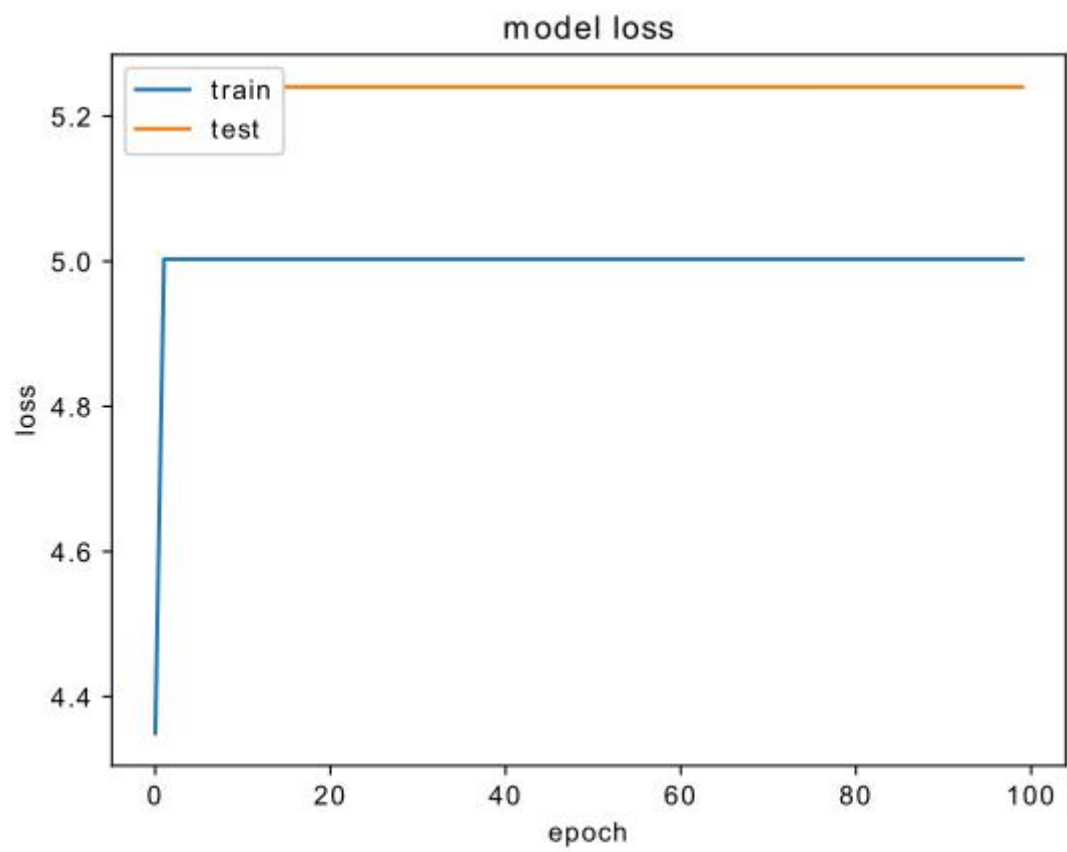*Figure 22: Loss Curve for the 7th Neural Network Configuration*

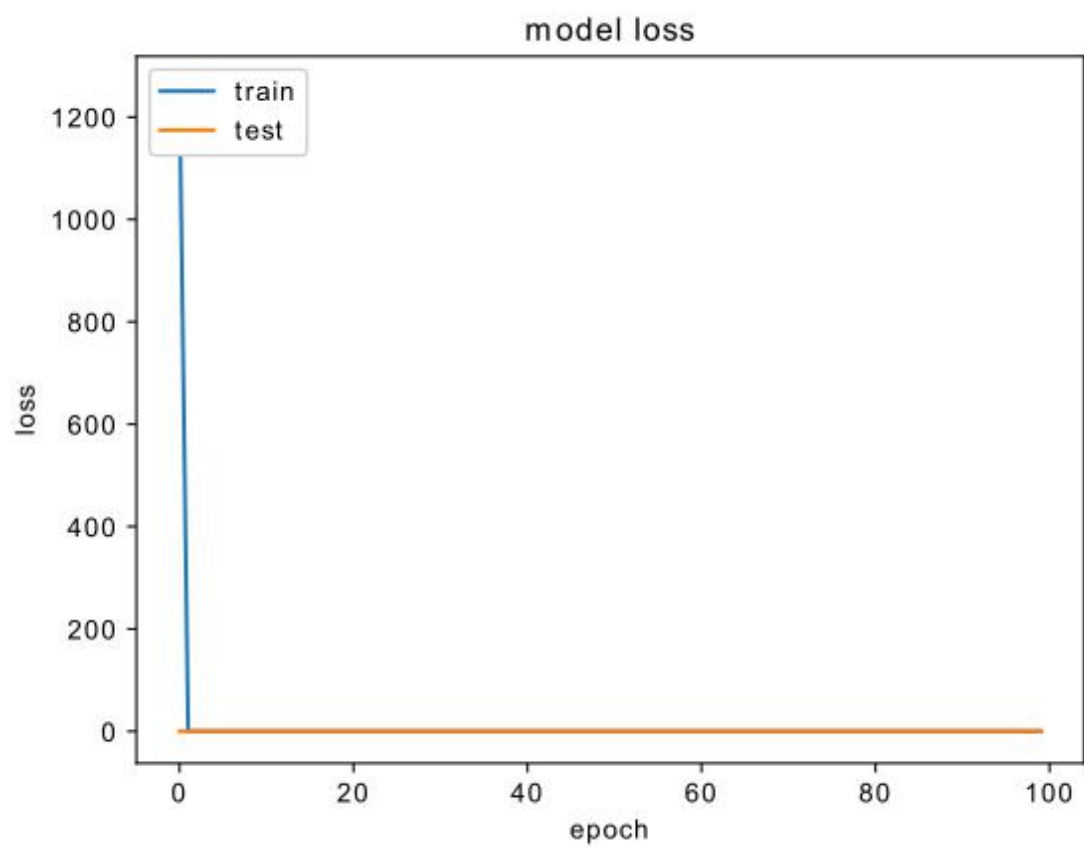*Figure 23: Loss Curve for the 1st Neural Network Configuration*

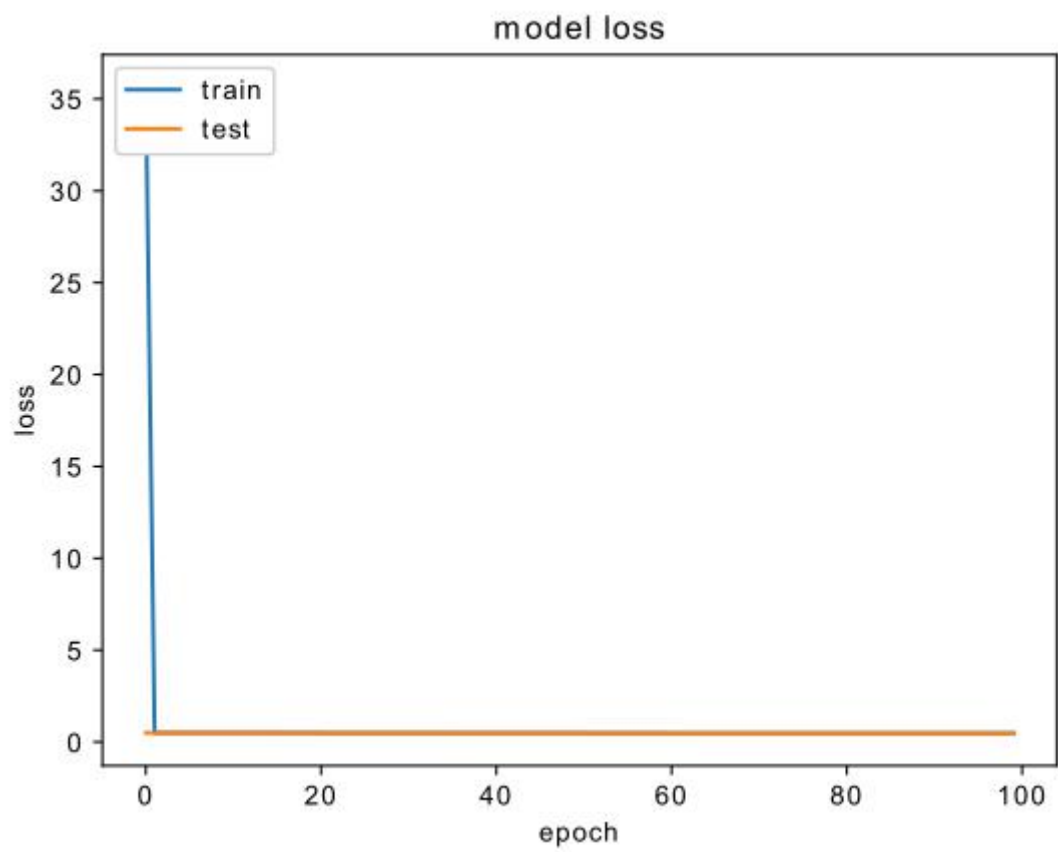*Figure 24: Loss Curve for the 3rd Neural Network Configuration*

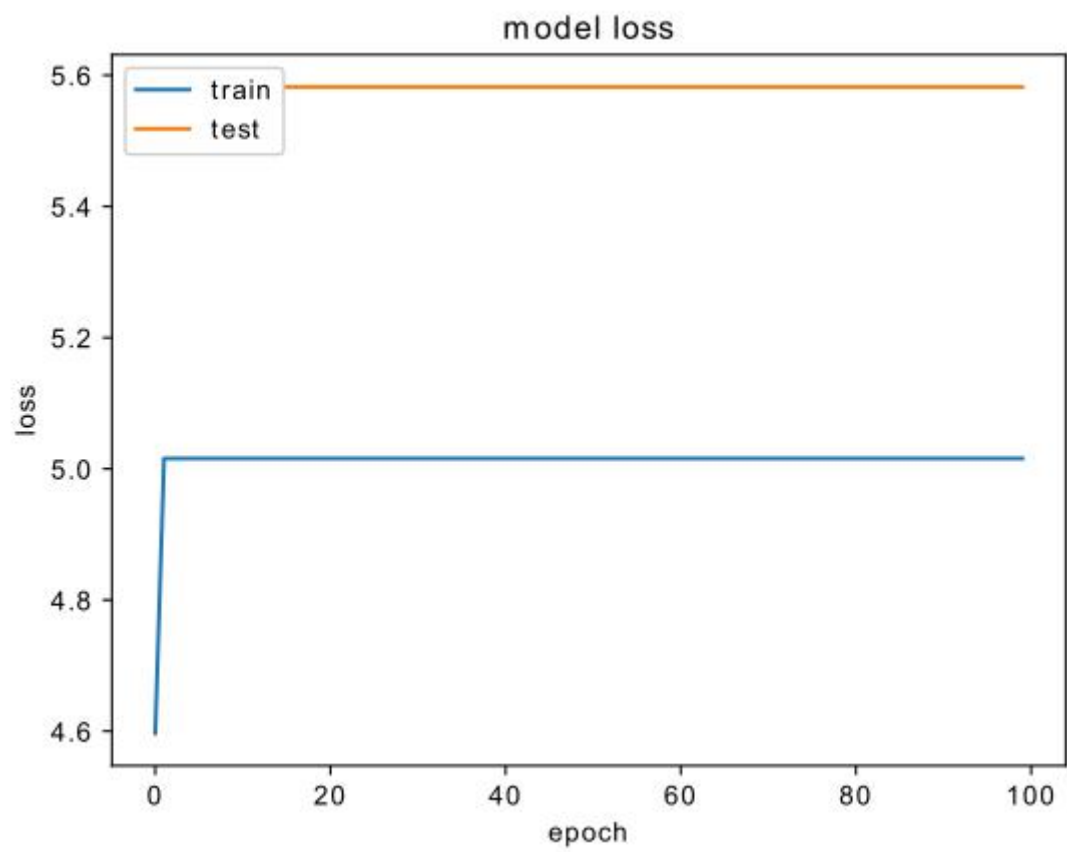*Figure 25: Loss Curve for the 2nd Neural Network Configuration*

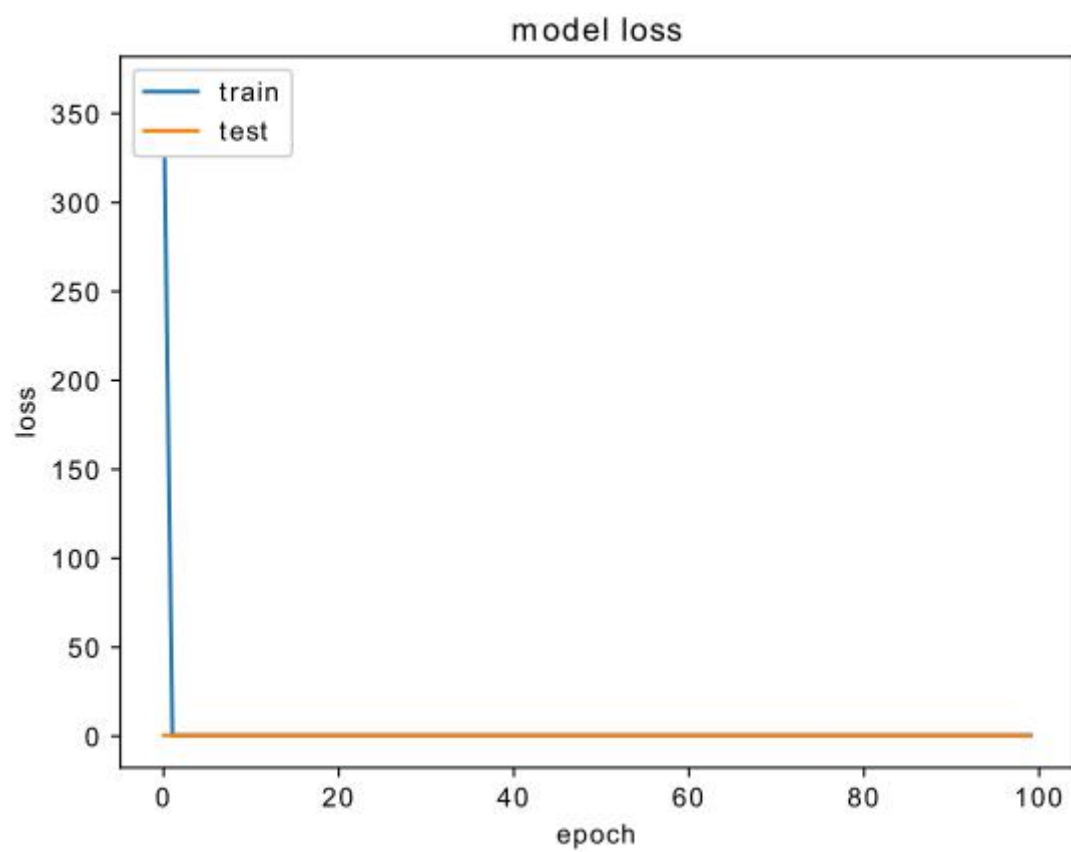*Figure 26: Loss Curve for the 4th Neural Network Configuration*
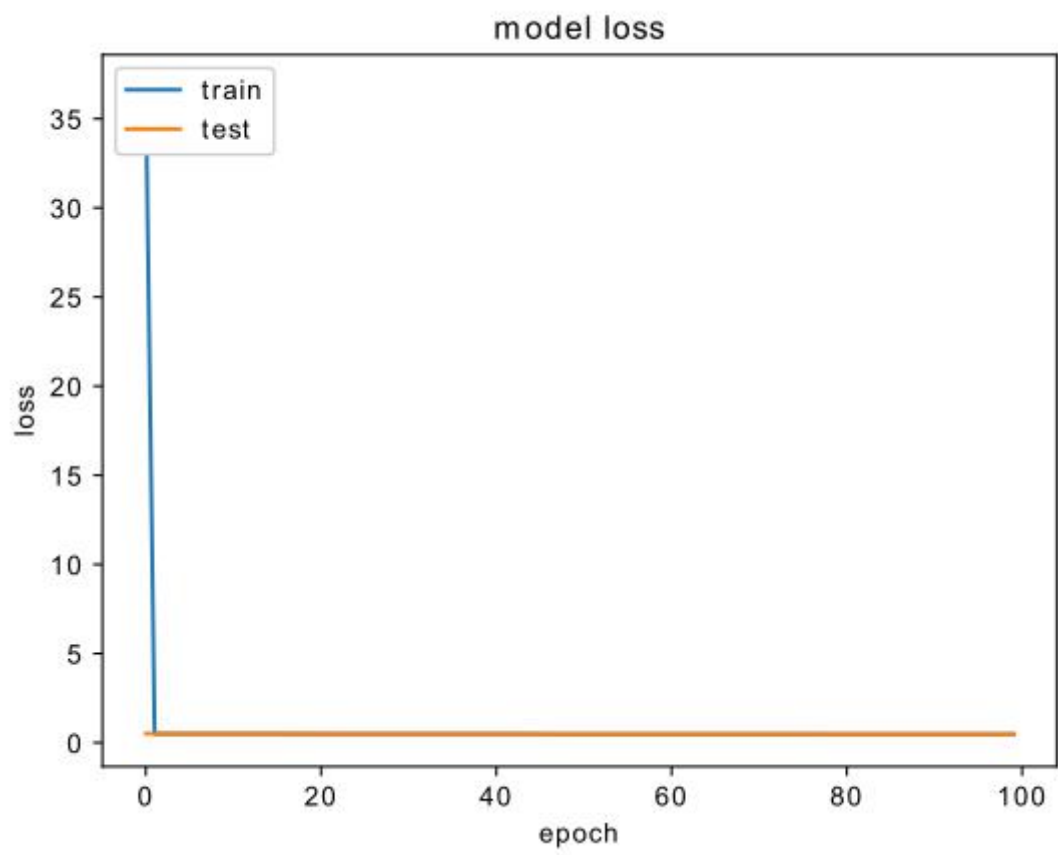
Figure 27: Loss Curve for the 3rd Neural Network Configuration

Figure 28: Loss Curve for the 5th Neural Network Configuration