

Rumor Detection using Dual Embeddings and Text-based Graph Convolutional Network

1 Supplementary Training Results

1.1 Accuracy and Loss graph for our proposed model

Accuracy over 10 runs and Training Loss over epochs graph for the proposed model are given from 1 to 6

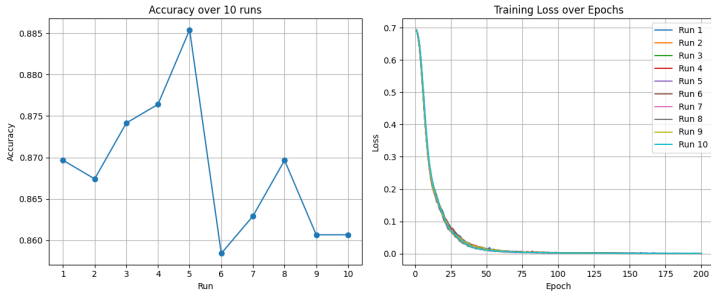


Fig. 1: Ottawa shooting:(proposed model)

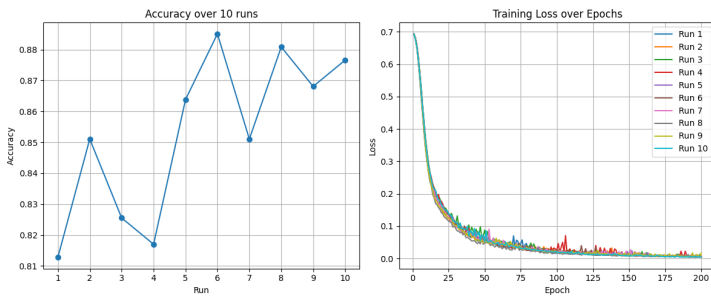


Fig. 2: Germanwings Crash:(proposed model)

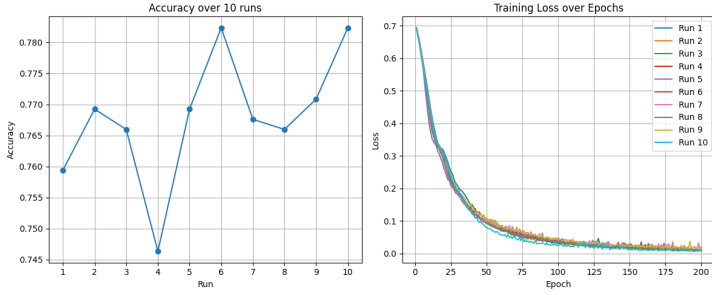


Fig. 3: Sydney siege:(proposed model)

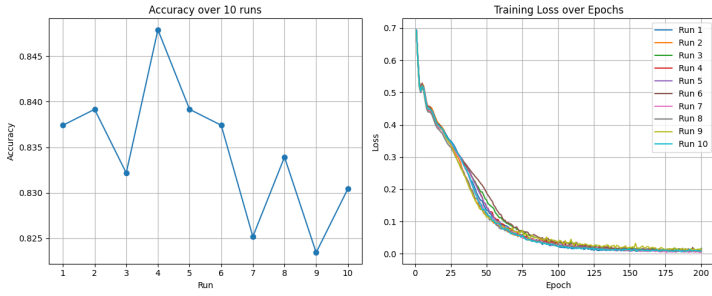


Fig. 4: Ferguson:(proposed model)

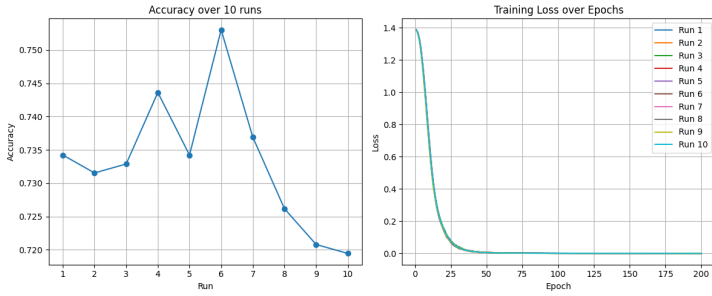


Fig. 5: Twitter15:(proposed model)

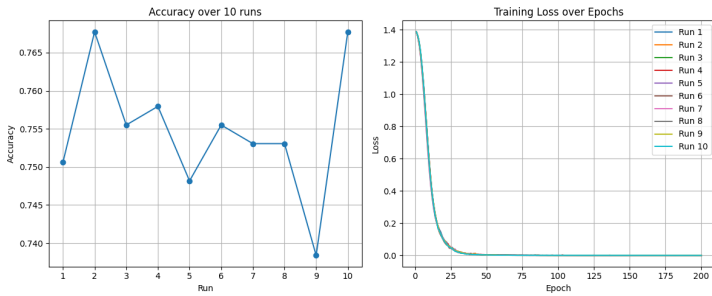


Fig. 6: Twitter16:(proposed model)

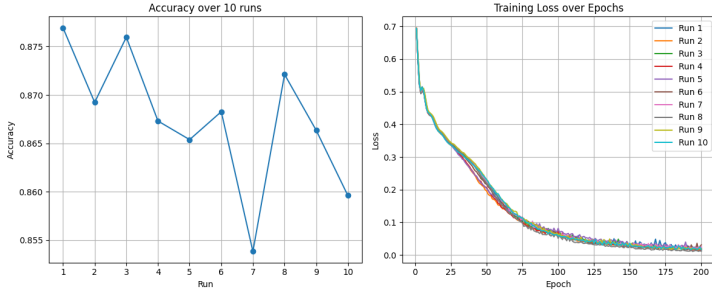


Fig. 7: Charlie Hebdo:Roberta+GPT+GCN

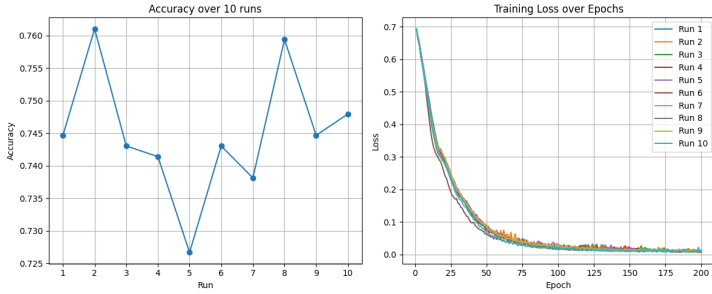


Fig. 8: Sydney siege:Roberta+GPT+GCN

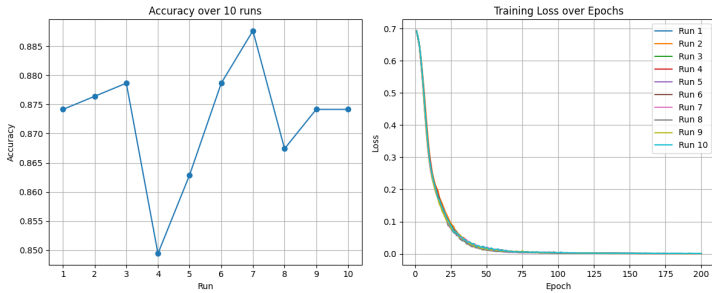


Fig. 9: Ottawa shooting:Roberta+GPT+GCN

1.2 Accuracy and Loss graph for Roberta+GPT+GCN model

Accuracy over 10 runs and Training Loss over epochs graph for the variations on embeddings of the proposed model such as the Roberta and GPT embeddings with GCN are given from 7 to 13

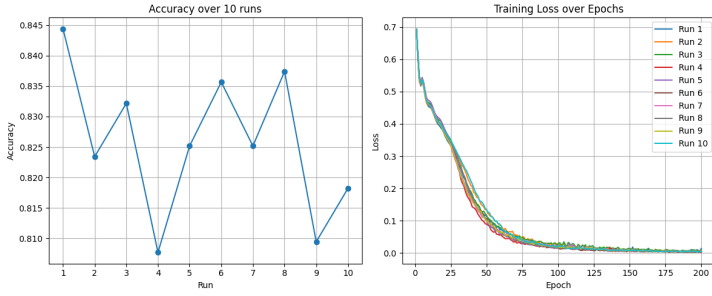


Fig. 10: ferguson2:Roberta+GPT+GCN

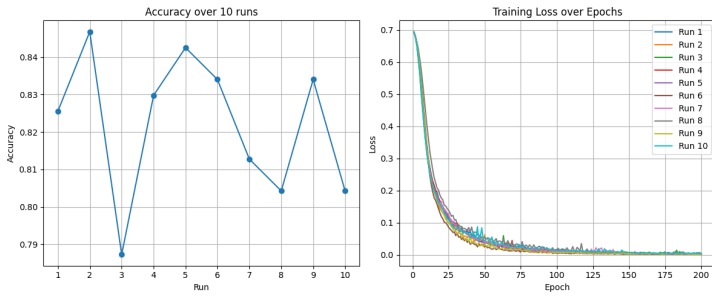


Fig. 11: Germanwings Crash:Roberta+GPT+GCN

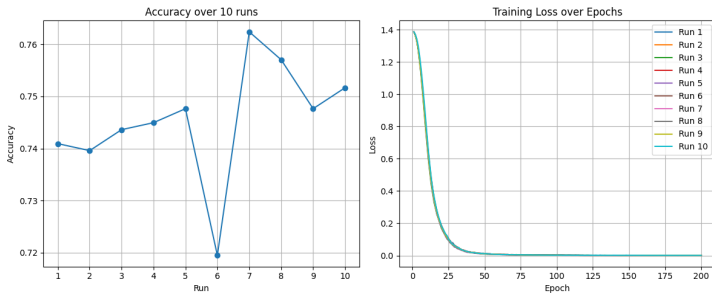


Fig. 12: Twitter15.2:Roberta+GPT+GCN

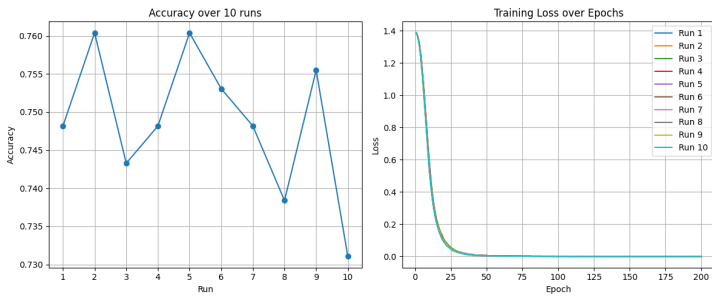


Fig. 13: Twitter16.2:Roberta+GPT+GCN

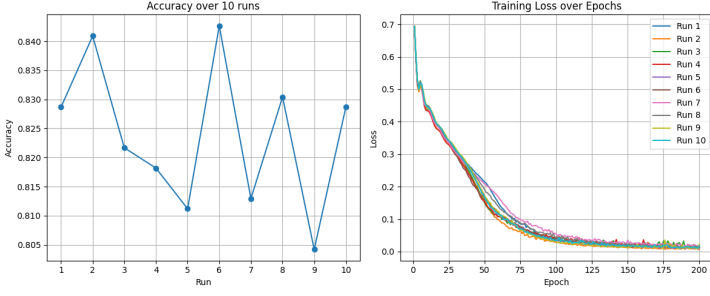


Fig. 14: Ferguson:GPT+GCN

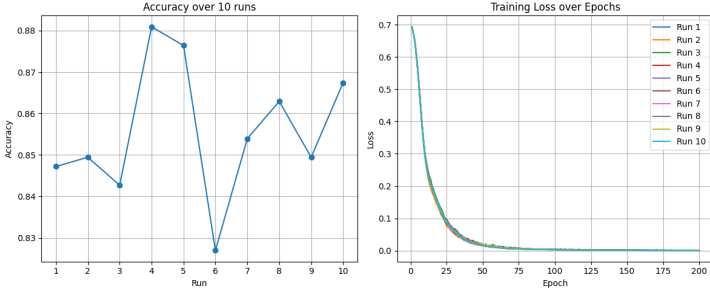


Fig. 15: Ottawa shooting:GPT+GCN

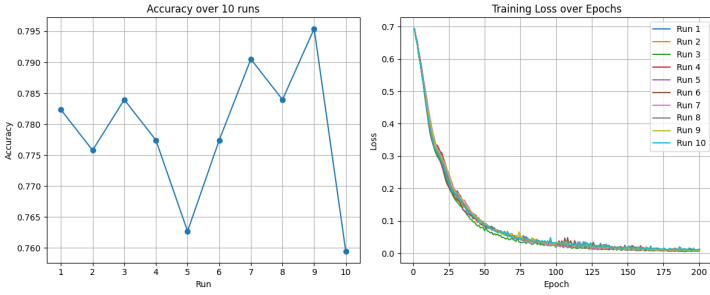
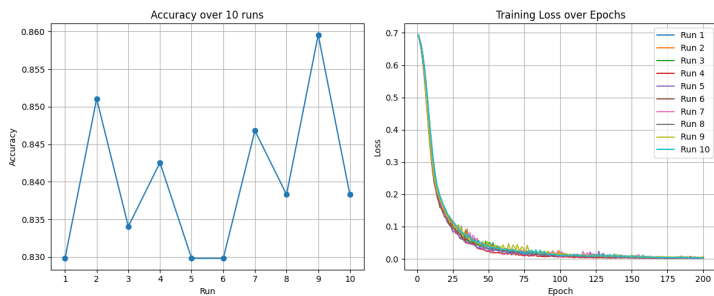
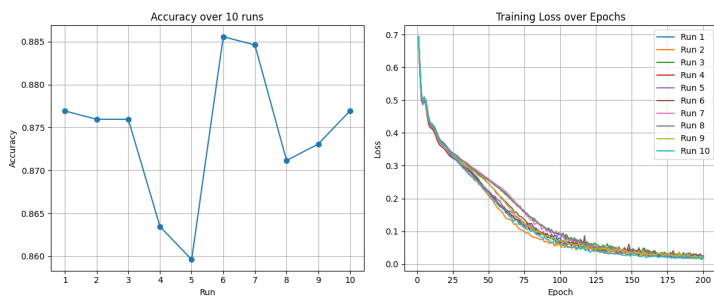
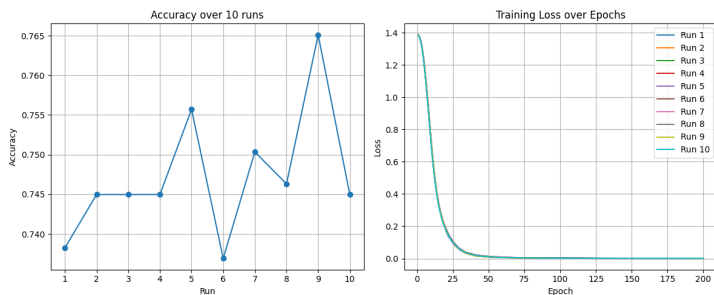
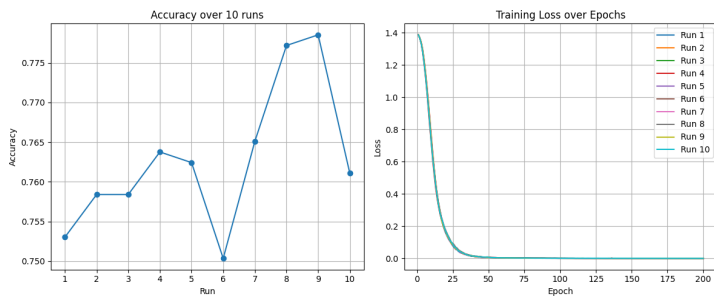


Fig. 16: Sydney siege:GPT+GCN

1.3 Accuracy and Loss graph for GPT+GCN model

Accuracy over 10 runs and Training Loss over epochs graph for the variations on embeddings of the proposed model such as the GPT embeddings with GCN are given from 14 to 20

References

**Fig. 17:** Germanwings Crash:GPT+GCN**Fig. 18:** Charlie Hebdo:GPT+GCN**Fig. 19:** Twitter15:GPT+gcn**Fig. 20:** Twitter16:GPT+gcn