

# Analysis

## Logistic Regression

Insights during training the model:

1. As we increase the size of the embeddings , the better it is for the model to classify i.e better accuracy
2. During node embeddings for small random walks lengths the node embeddings are not giving better representation , not able to show the relationships between the nodes
3. As we increase the no of epochs in word2vec model we are able to get better representations.
4. Accuracy of the logistic regression model highly depends on the node embeddings the better the embeddings are the higher the accuracy will be.

## GCN

Insights during training the model:

1. GCN model is giving very good accuracy of about 97%
2. It has lot of hyperparameters to tune due to which it can be modelled in an very efficient way compared to logistic regression model which is actually giving an accuracy of about 91%
3. As we increase the no of epochs in the model it is giving better accuracy
4. I got an accuracy of 97% when I run upto 2000 epochs during training.