**TDL ASSIGNMENT**

**UNIT 5**

**GRAPH NEURAL NETWORKS IMPLEMENTATION**

Ganesh Tarun S R – PES1UG19CS160

S Usha Priya – PES1UG19CS407

Shamitha S – PES1UG19CS448

**Paper : Semi Supervised learning Node classification using Graph Convolutional Networks (GCNs)**

Dataset used is CORA, one of the datasets mentioned in the journal paper.

Link to the dataset:

<https://drive.google.com/drive/folders/1V6RQvX8K74mVyLM3F5QyiN7DPJlttH8y>

Link to the notebook:

<https://colab.research.google.com/drive/17SrAeAITxshdHwdBuEffVMF1ikM-fXiQ#scrollTo=Nwt24ncQH7UJ>

**Outputs:**

Model summary:

Two layered GCN

A screenshot of a computer

Description automatically generated with medium confidence

Classification Report(Performance metrics of the GCN after 100 epochs):

Calendar

Description automatically generated