Team member

“Nathanael” Yu Ren, Lucy Zhu, Henry

Proposal

See Overleaf project write up <https://www.overleaf.com/project/65370daa8129cf693628c8fa>

Link to Drive: <https://drive.google.com/drive/folders/1TP2U8QE_WOrmvdLAUnAS09n-2t-Wp9Z_?usp=sharing>

## Final Deliverables

1. DiffPool code - Henry
2. Graph Augmentation - Lucy
3. Ablation studies
   1. GCN
   2. GraphSAGE
   3. GAT
   4. GIN
   5. Each with and without augmentation
4. Leaderboard Submissions
5. Blog writeup
6. Results
7. Insights
8. DiffPool Pull Request for heterogeneous graphs (Stretch)

## 1.4 Project Milestone [6.67%]

The project milestone is **6.67%** of the project grade and **2%** of your total grade. *It is graded on a credit/no credit basis.*

* Code for
  + Processing the dataset
  + Training/evaluating the model
  + Any other programs required by your project
* Report draft (70% done)
  + Problem description/motivation
  + Dataset description and processing
  + Model design and metrics

Note that you do not need to submit everything listed in the above bullet points. As long as you show that you have done substantial work by the submission deadline, you will receive full credit.

## 1.5 Project Report [80%]

This final submission is **80%** of the project grade and **24%** of your total grade.

Deliverables for the final submission and their weightages are:

* Blog post (50 points)
  + Motivation & explanation of data/task (10 points)
  + Appropriateness & explanation of model(s) (10 points)
  + Insights + results (10 points)
  + Figures (10 points)
  + PyG code snippets (10 points)
* Colab (25 points)
  + Code: correctness, design (15 points)
  + Documentation: class/function descriptions, comments in code (10 points)
* Medium account name (5 points)