Experiments

Setup: Baselines

- Implement the baselines only with the parts for encoding the news content, user comments, and news propagation graph.
- CSI: employs an LSTM to encode the news content information to detect fake news.
- SAFE: uses TextCNN to encode the news textual information
- GCNFN: the first fake news detection framework to encode the news propagation graph using GCN
- GNN-CL: encodes the news propagation graph using DiffPool (a GNN designed for graph classification)
- Authors also add two baselines that apply MLP directly on news textual embeddings encoded by word2vec and BERT

Experiments

Setup: Settings

- Implement all models using PyTorch
  - all GNN models are implemented with PyTorch-Geometric package.
- Unified graph embedding size (128)
- Batch size (128)
- Optimizer (Adam)
- L2 regularization weight (0.001)
- Train-Val-Test (2:1:7) for all model
- Results are averaged over 5 different runnings