Experiments

Setup: Dataset

- To investigate both the user preference and propagation pattern of fake news, authors choose the FakeNewsNet datasets.
- It contains fake and real news information from two fact-checking websites and the related social engagement from Twitter.

Table 1: Dataset and graph statistics.

Dataset	#Graphs (#Fake)	#Total Nodes	#Total Edges	#Avg. Nodes per Graph
Politifact (POL)	314 (157)	41,054	40,740	131
Gossipcop (GOS)	5464 (2732)	314,262	308,798	58

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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