Preliminaries

DropEdge

- Novel method to reduce over-fitting for GCN-based models (Rong et al. 2019).
- Randomly drops out edges from input graphs to generate different deformed copies with certain rate at each training epoch.
 - This method augments the randomness and the diversity of input data.
- Formally, suppose the total number of edges in the graph ${f A}$ is N_e , and the dropping rate is p
 - $\mathbf{A}' = \mathbf{A} \mathbf{A}_{drop}$: adjacency matrix after DropEdge
 - ${\bf A}_{drop}$ is constructed using $N_e imes p$ edges randomly sampled from the original edge set.

Methodology

Bi-GCN Rumor Detection Model

