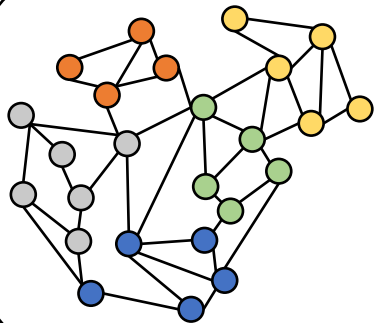


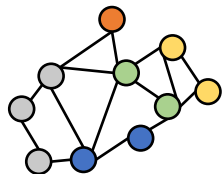
Original Dataset

$$\mathcal{T} = \mathcal{G}(\mathcal{V}, \mathcal{E}), N = |\mathcal{V}|$$



Reduced Dataset

$$\mathcal{S} = \mathcal{G}'(\mathcal{V}', \mathcal{E}'), N' = |\mathcal{V}'|$$



Graph Reduction

$$N' < N \text{ and/or} \\ |\mathcal{E}'| < |\mathcal{E}|$$

Maintaining Key
Information