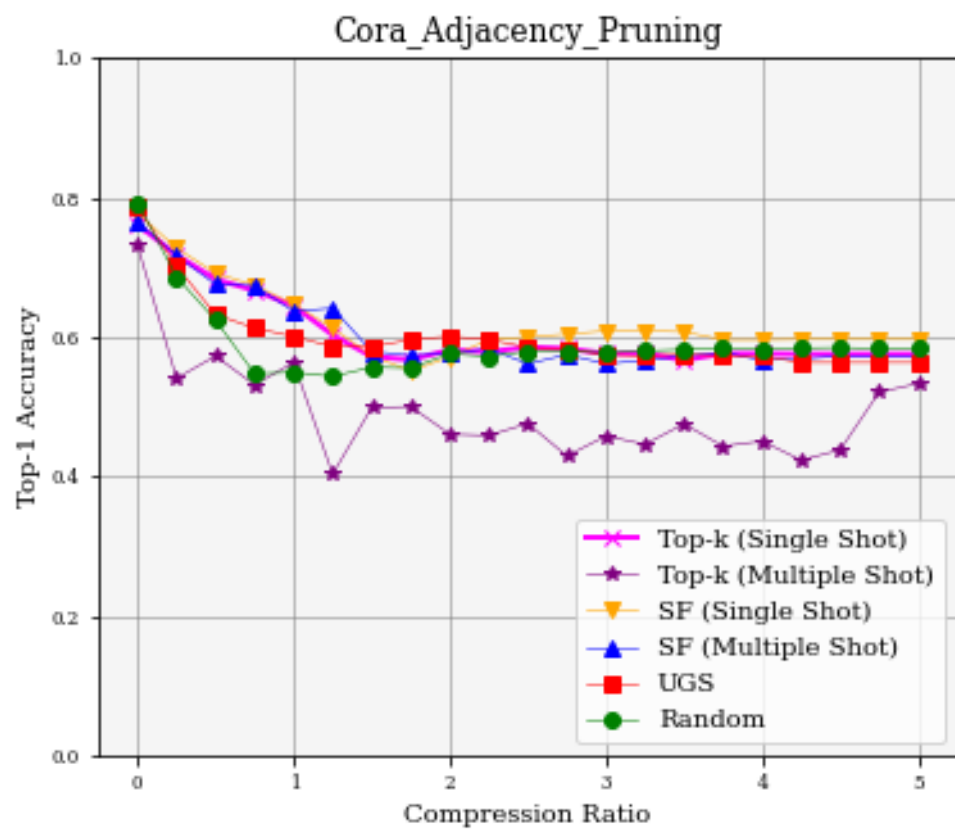


## GNN Experiments-

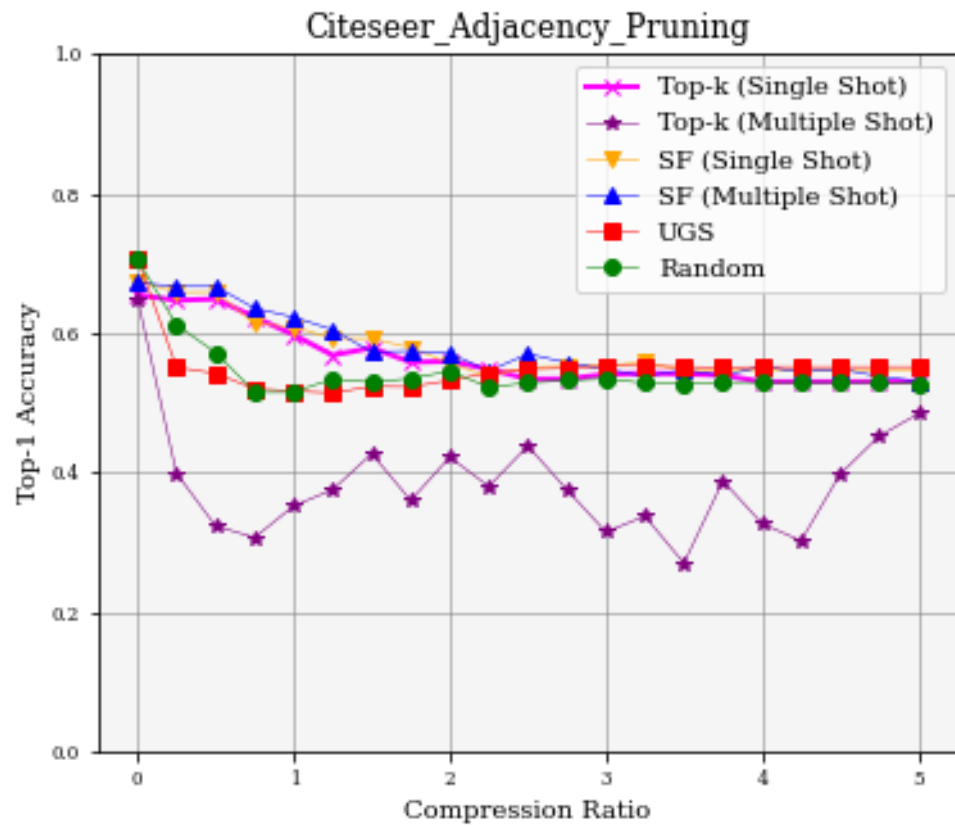
### 1. Pruning on Adjacency Matrix

	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1) (Singleshoot)	DONE	DONE		
Top-k (k=1) (Multishot Levels- 3)	DONE	DONE		
Synflow (Single)	DONE	DONE		
Synflow (Multiple Levels- 3 )	DONE	DONE		
UGS	DONE	DONE		
Random	DONE	DONE		

(1) Cora (Total 1 fig)



(2) Citeseer (Total 1 fig)



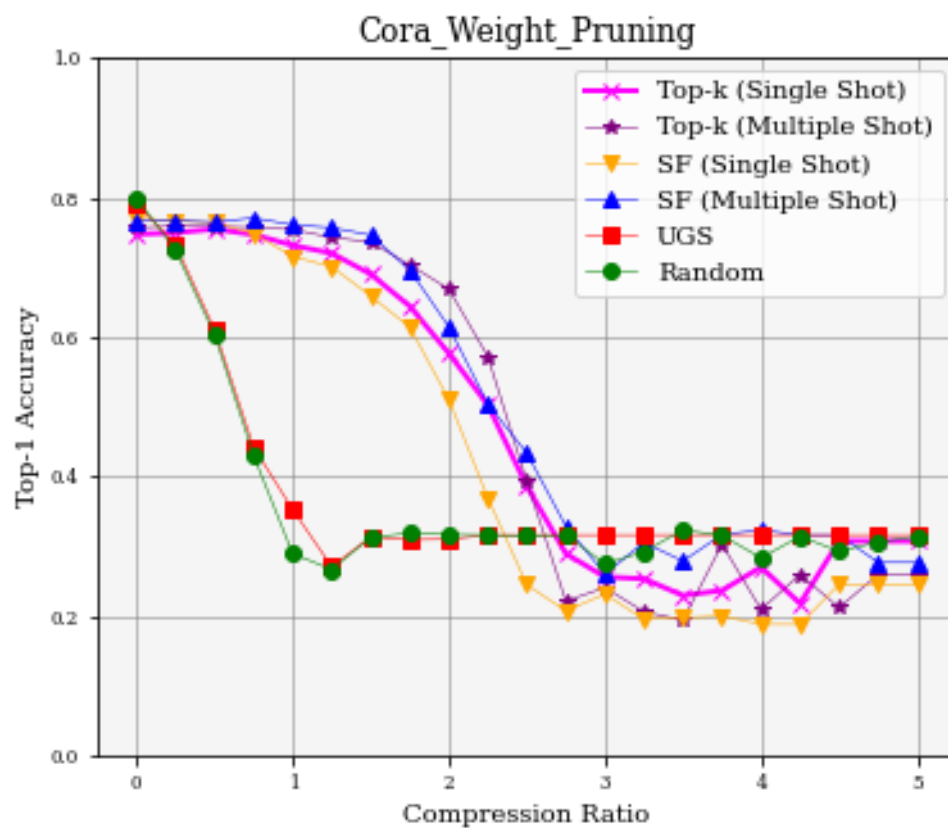
(3) Pubmed (Total 1 fig)

(4) Wiki (Total 1 fig)

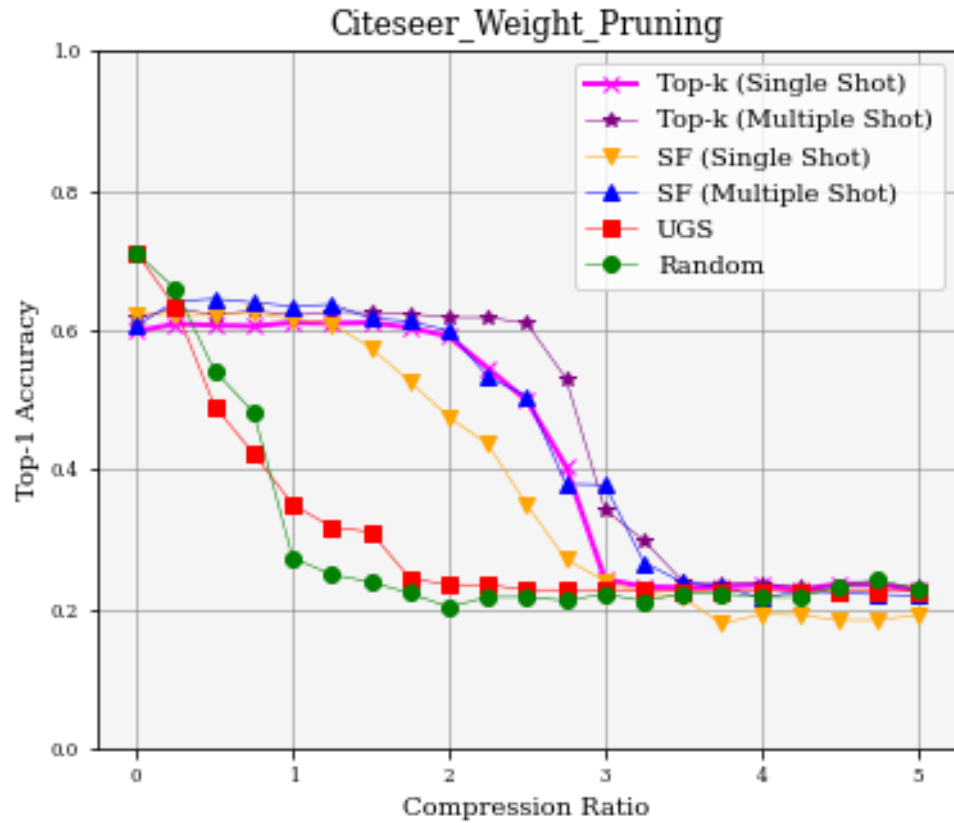
## 2. Pruning on Weights

	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1)(Singleshot)	DONE	DONE		
Top-k(k=1)( (Multishot Levels- 3 )	DONE	DONE		
Synflow (Singleshot)	DONE	DONE		
Synflow (Multishot Levels- 3 )	DONE	DONE		
UGS	DONE	DONE		
Random	DONE	DONE		

(1) Cora (Total 1 fig)



(2)Citeseer (Total 1 fig)



(1) Pubmed (Total 1 fig)

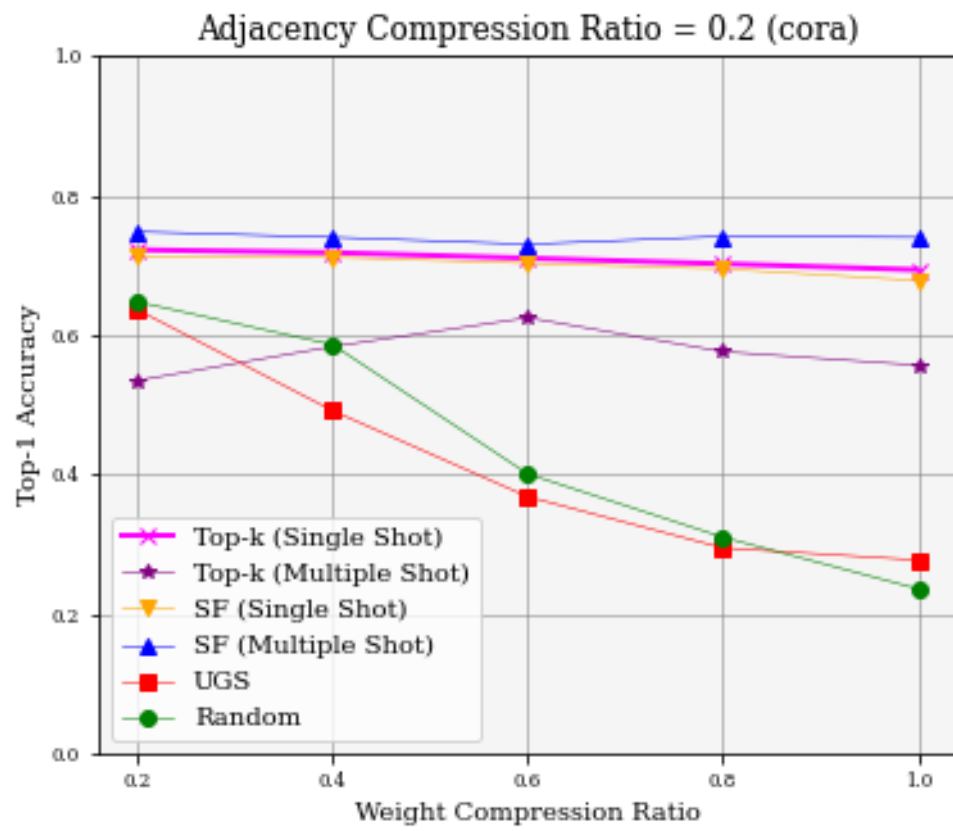
(2) Wiki (Total 1 fig)

### 3. Adj-Weight Separate Compression

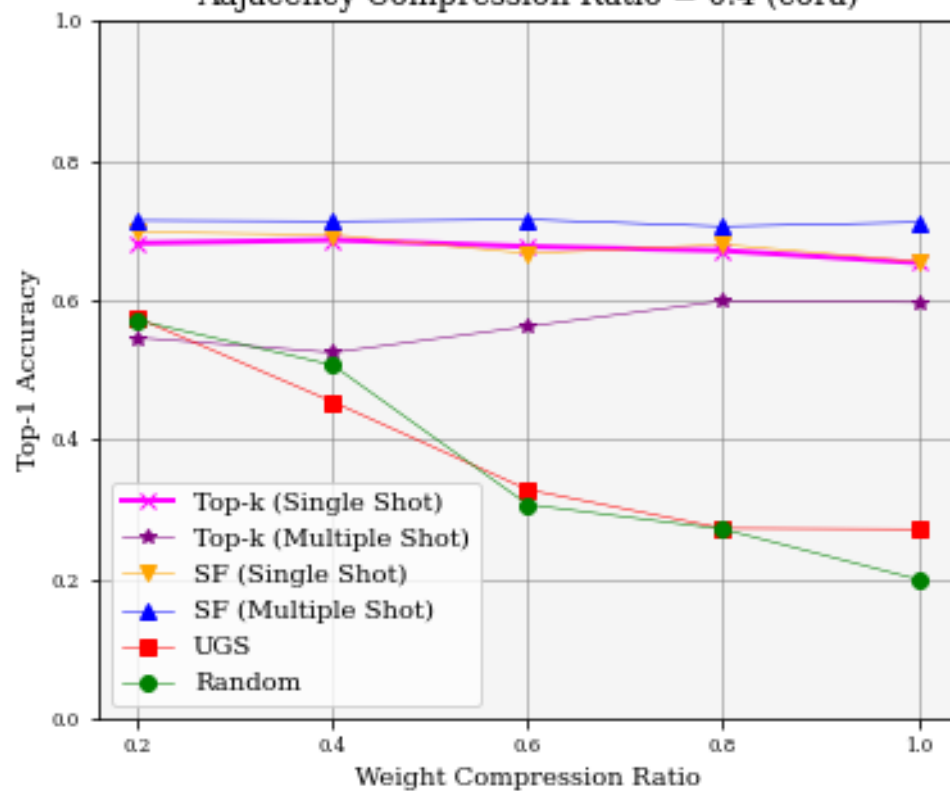
(1) 0.2 scale: Weight Compression: [0.2,0.4,0.6,0.8,1.0] Adj Compression: [0.2,0.4,0.6,0.8,1.0] (Total 5 figures for each dataset)

	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1)(Singleshoot)	DONE	DONE		
Top-k(k=1) (Multishot Levels- 3)	DONE	DONE		
Synflow (Singleshoot)	DONE	DONE		
Synflow (Multishot Levels- 3)	DONE	DONE		
UGS	DONE	DONE		
Random	DONE	DONE		

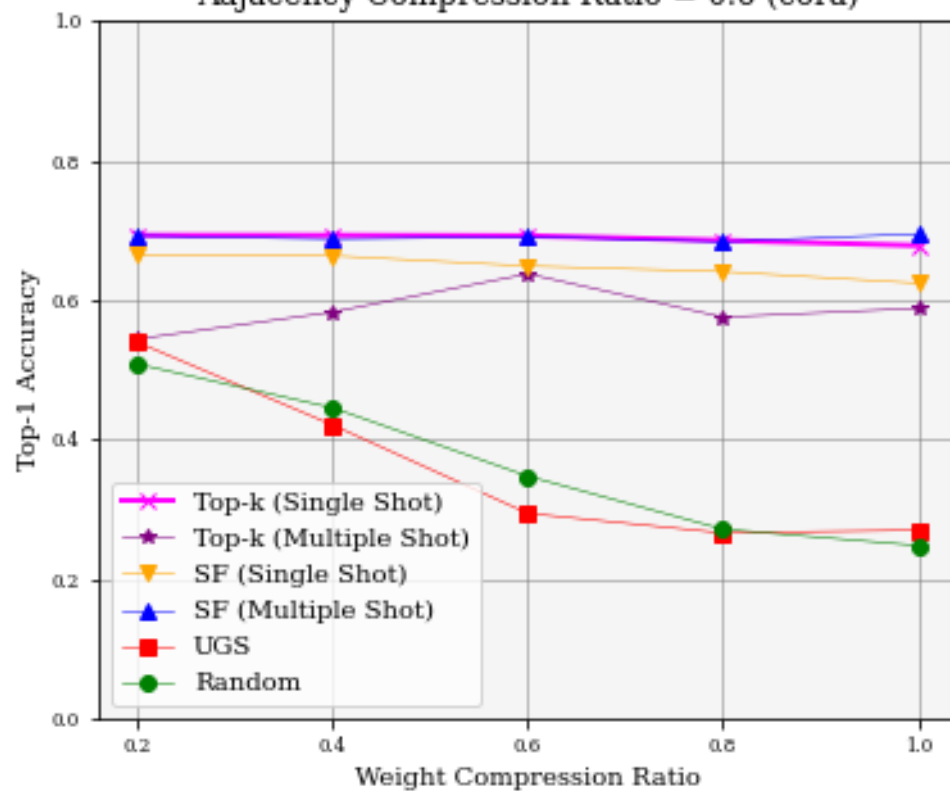
- Cora



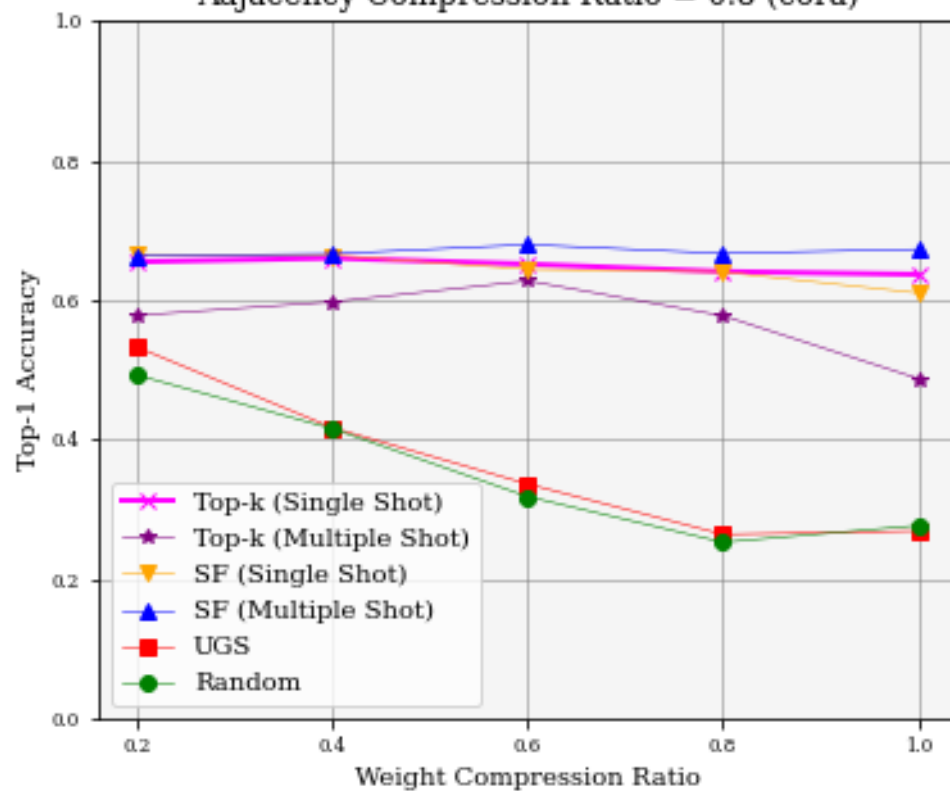
Adjacency Compression Ratio = 0.4 (cora)



Adjacency Compression Ratio = 0.6 (cora)

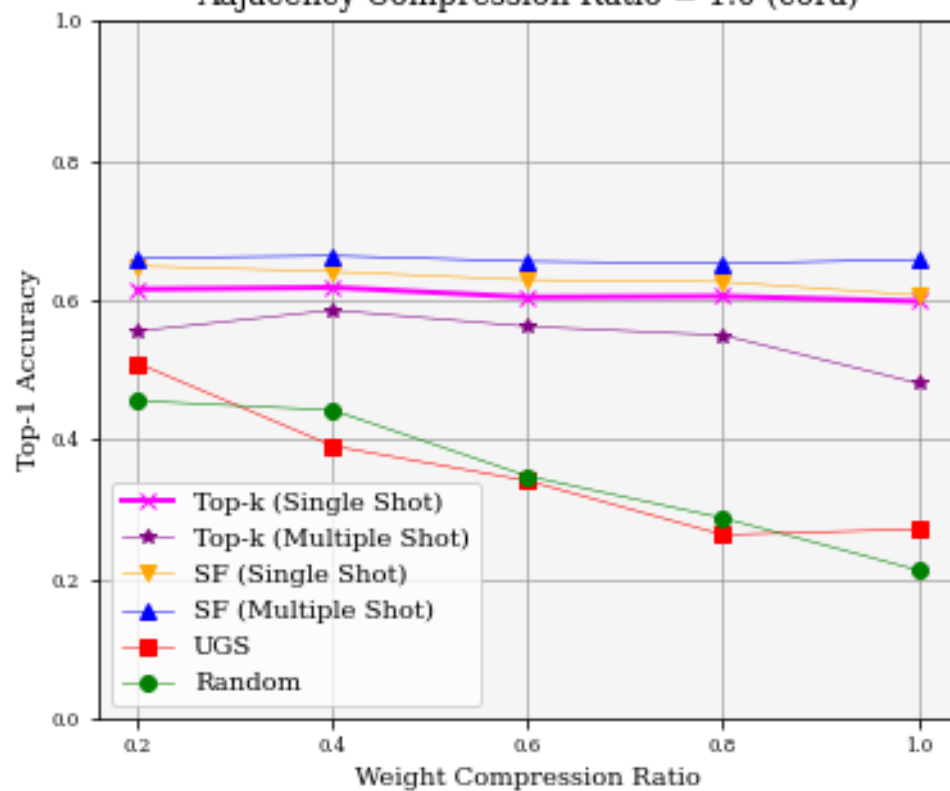


Adjacency Compression Ratio = 0.8 (cora)

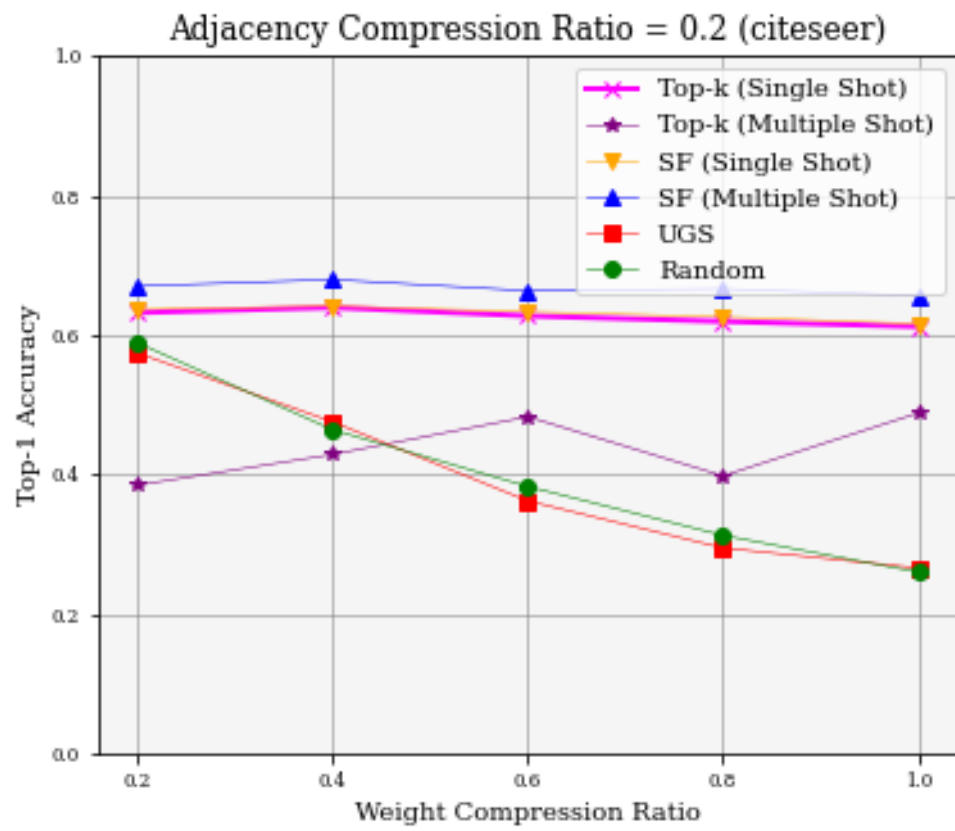




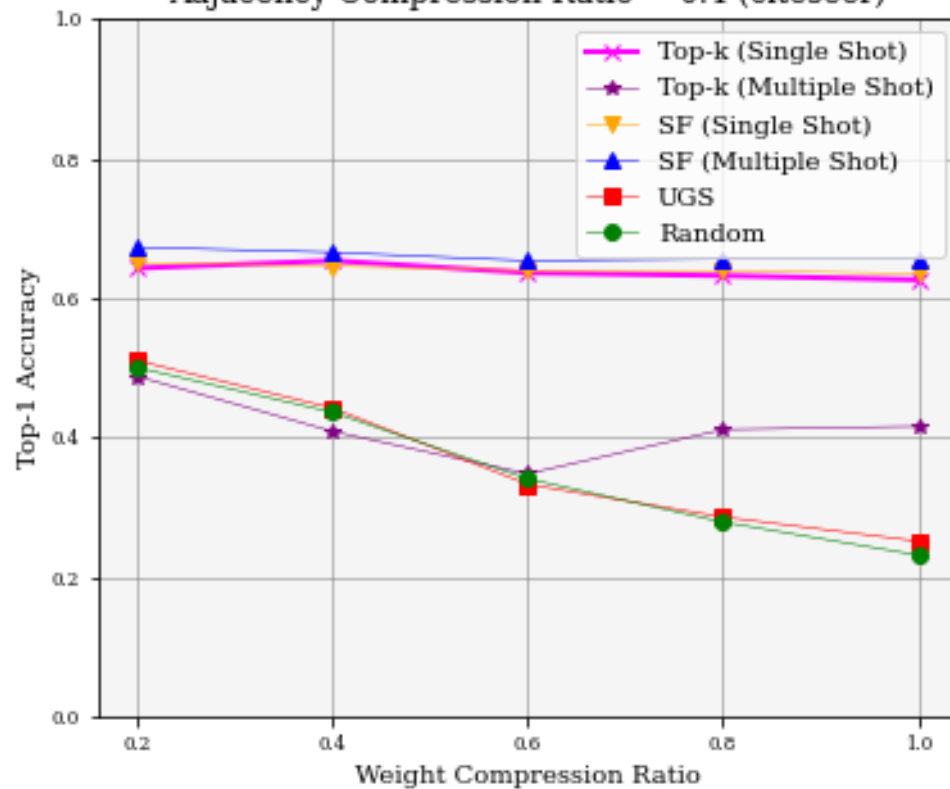
Adjacency Compression Ratio = 1.0 (cora)



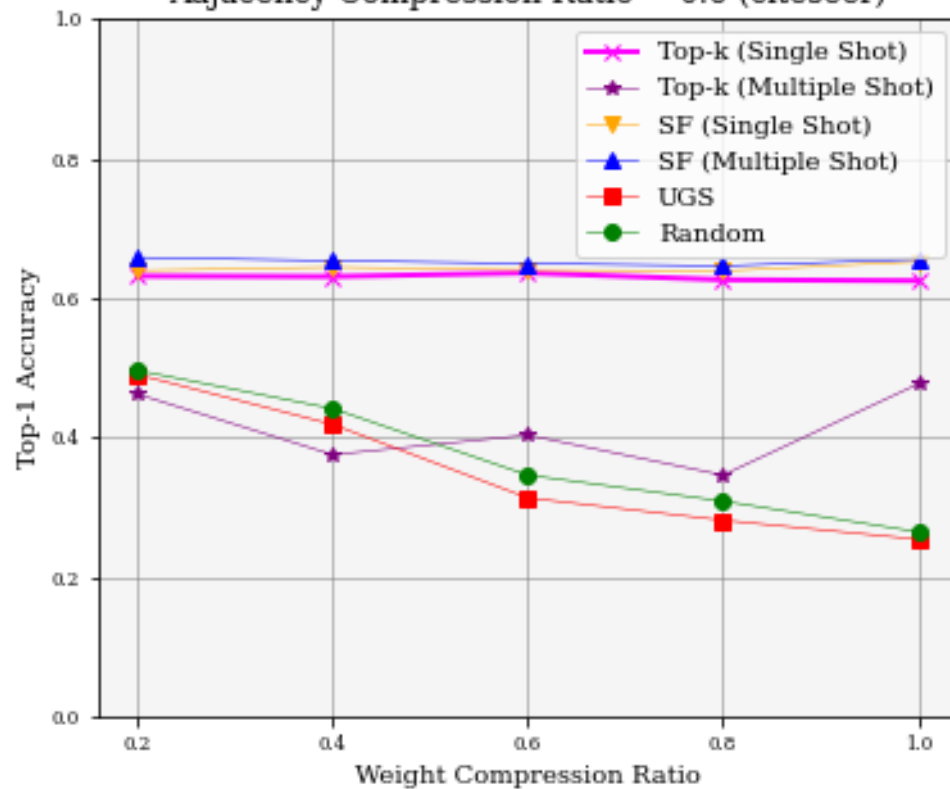
- Citeseer



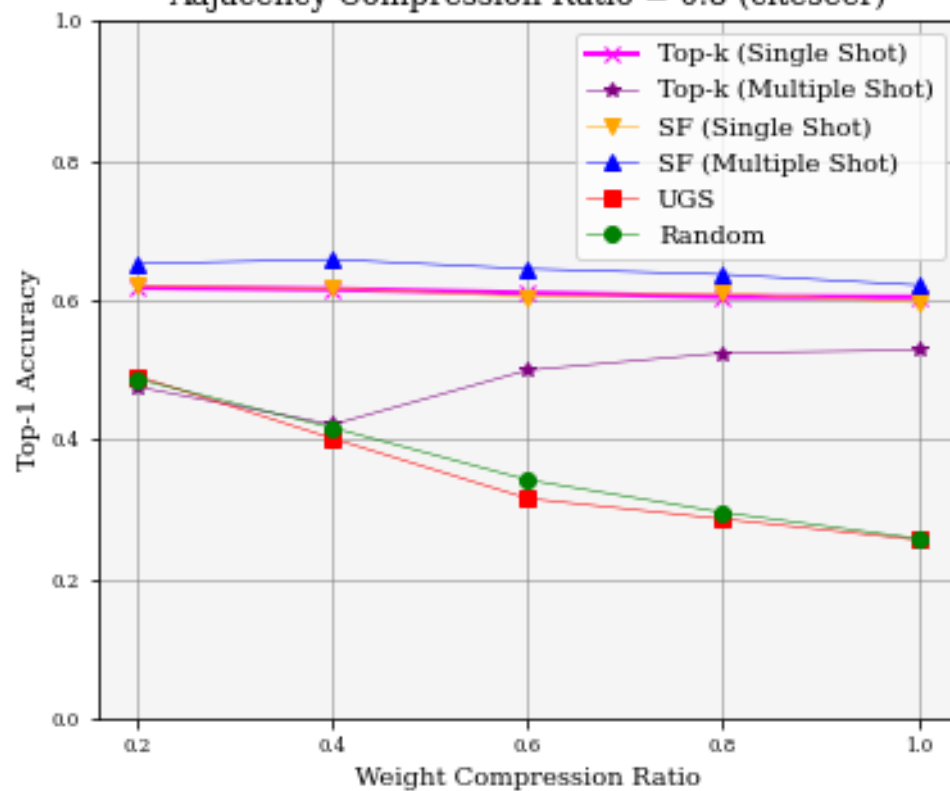
Adjacency Compression Ratio = 0.4 (citeseer)

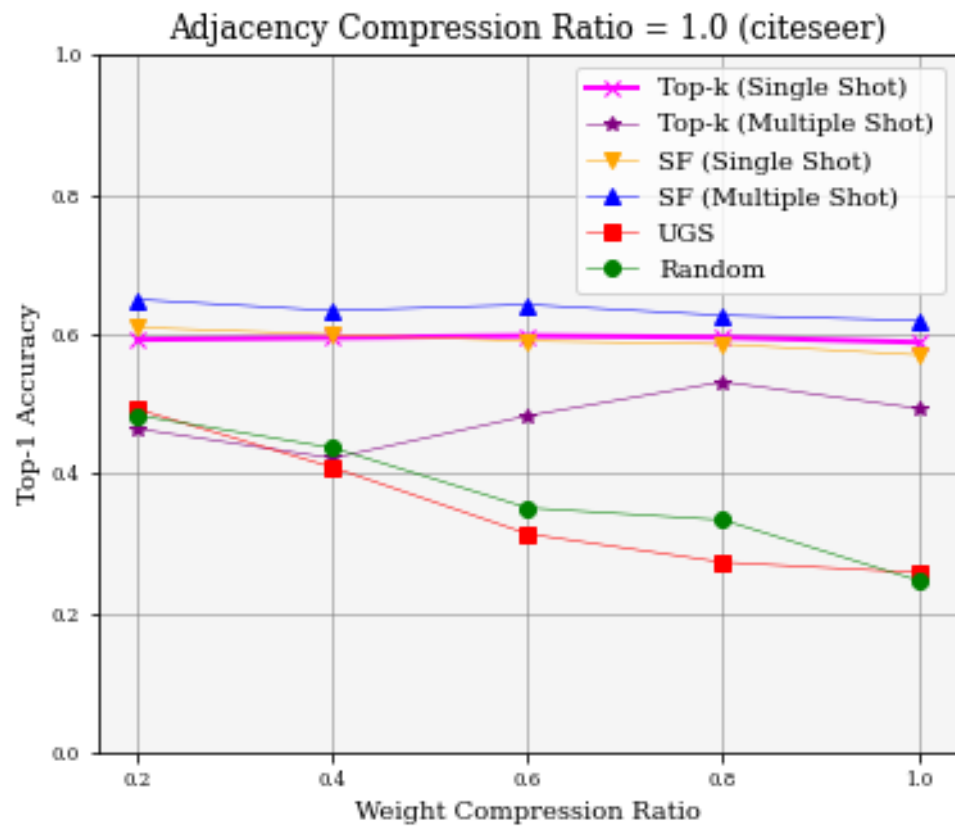


Adjacency Compression Ratio = 0.6 (citeseer)



Adjacency Compression Ratio = 0.8 (citeseer)



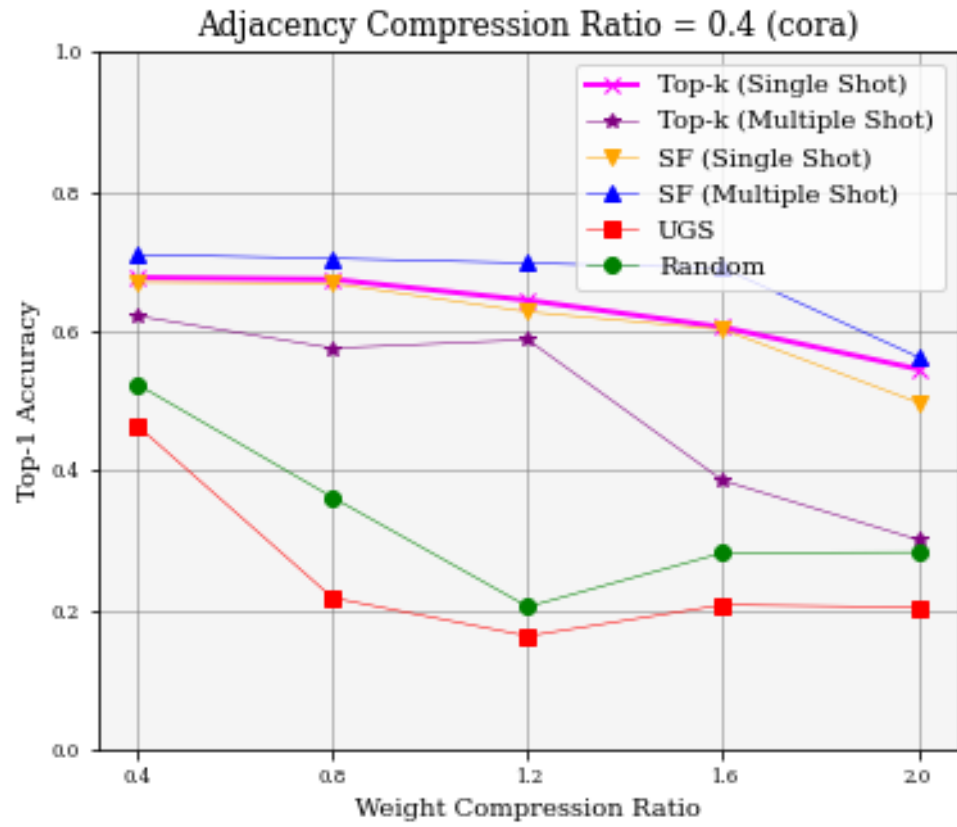


- Pubmed
- Wiki

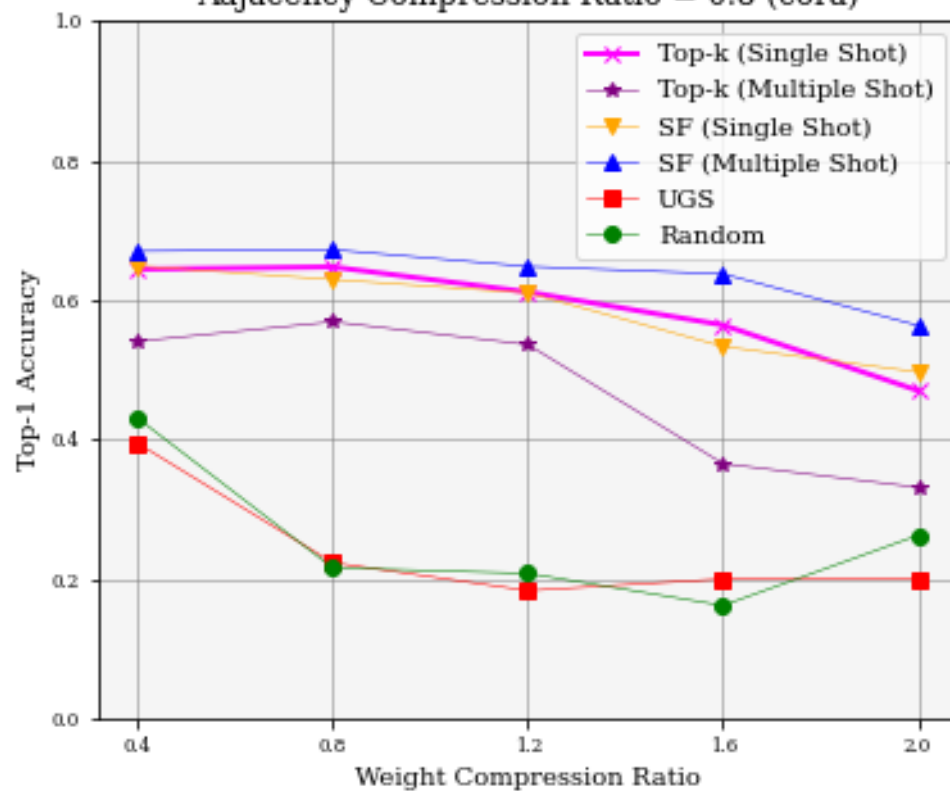
(2) 0.4 scale: Weight: [0.4,0.8,1.2,1.6,2.0] Adj: 0.4,0.8,1.2,1.6,2.0 (Total 5 figures for each dataset)

	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1) (Singleshot)	DONE	DONE		
Top-k (k=1) (Multishot Levels- 3)	DONE	DONE		
Synflow (Singleshot)	DONE	DONE		
Synflow (Multishot Levels- 3)	DONE	DONE		
UGS	DONE	DONE		
Random	DONE	DONE		

- Cora

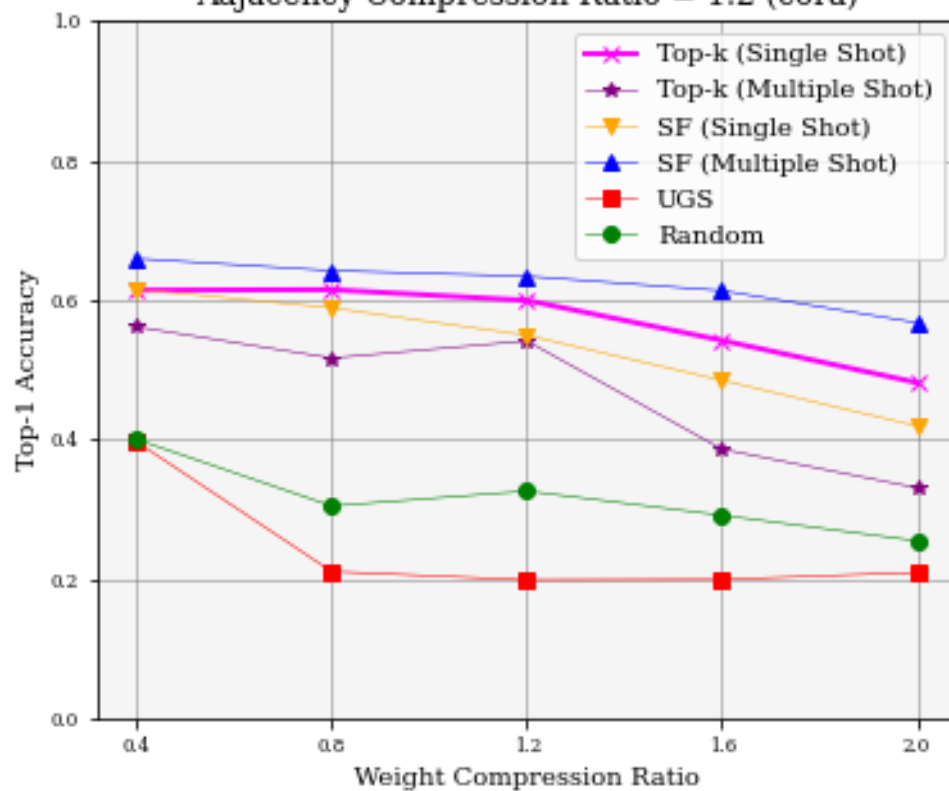


Adjacency Compression Ratio = 0.8 (cora)

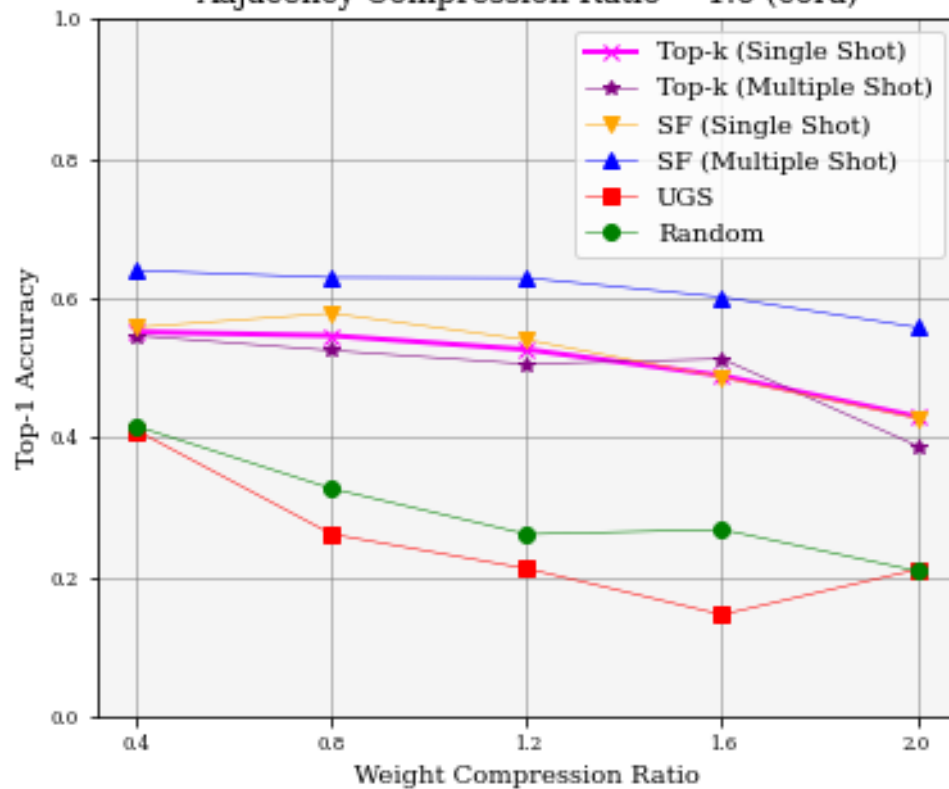




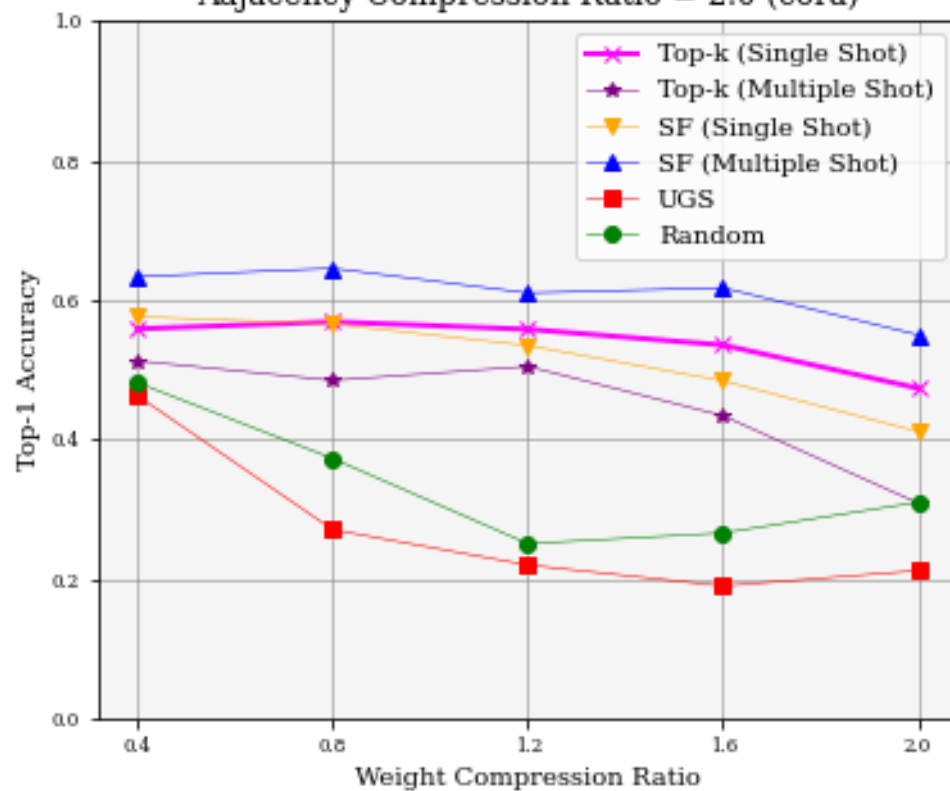
Adjacency Compression Ratio = 1.2 (cora)



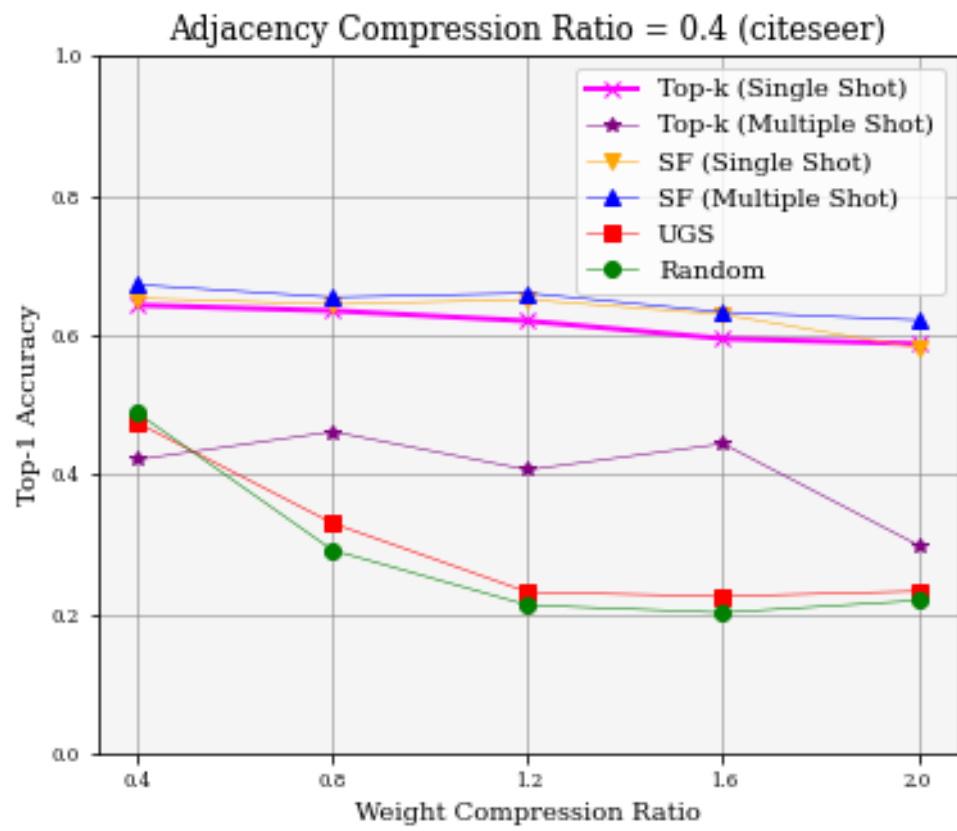
Adjacency Compression Ratio = 1.6 (cora)



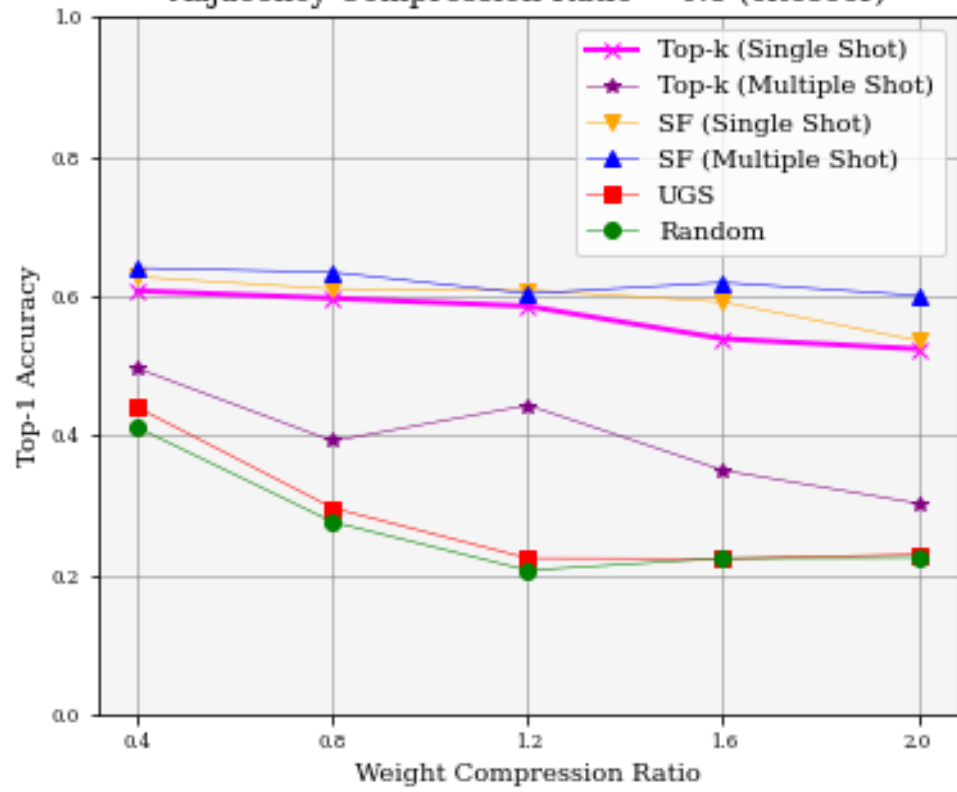
Adjacency Compression Ratio = 2.0 (cora)



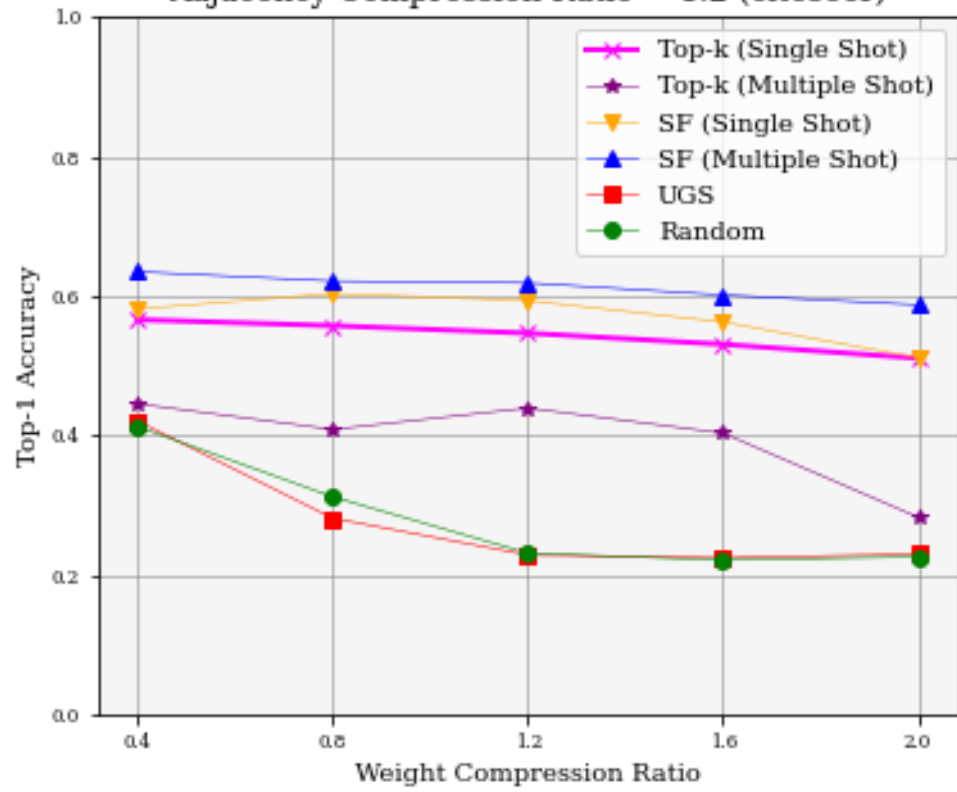
- Citeseer



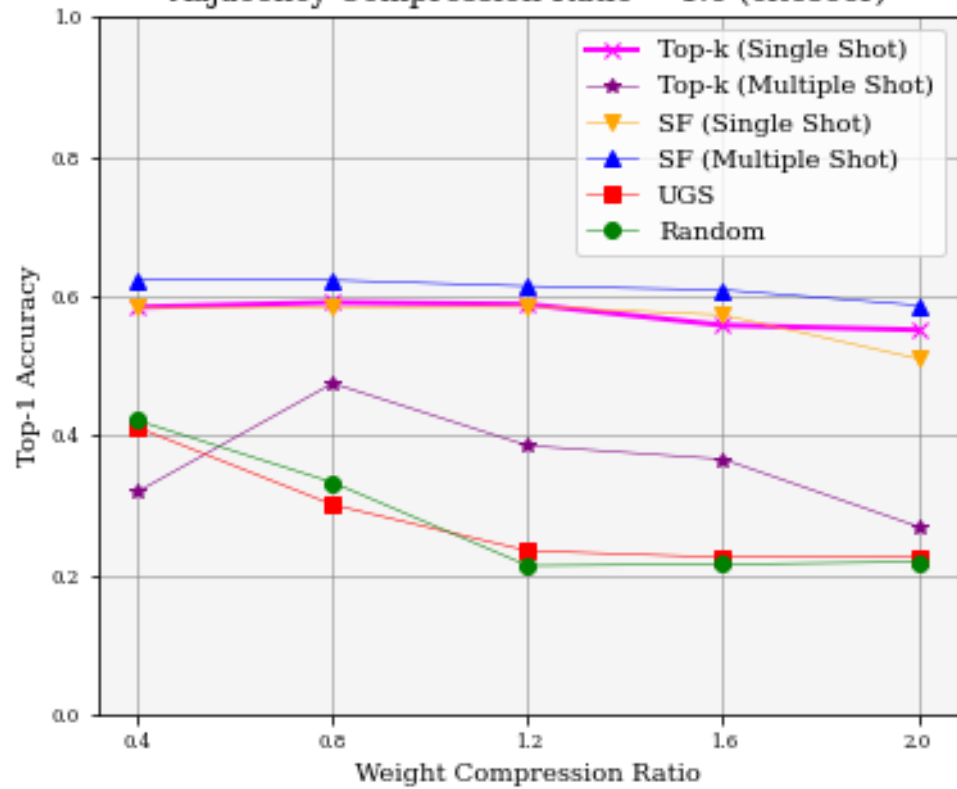
Adjacency Compression Ratio = 0.8 (citeseer)

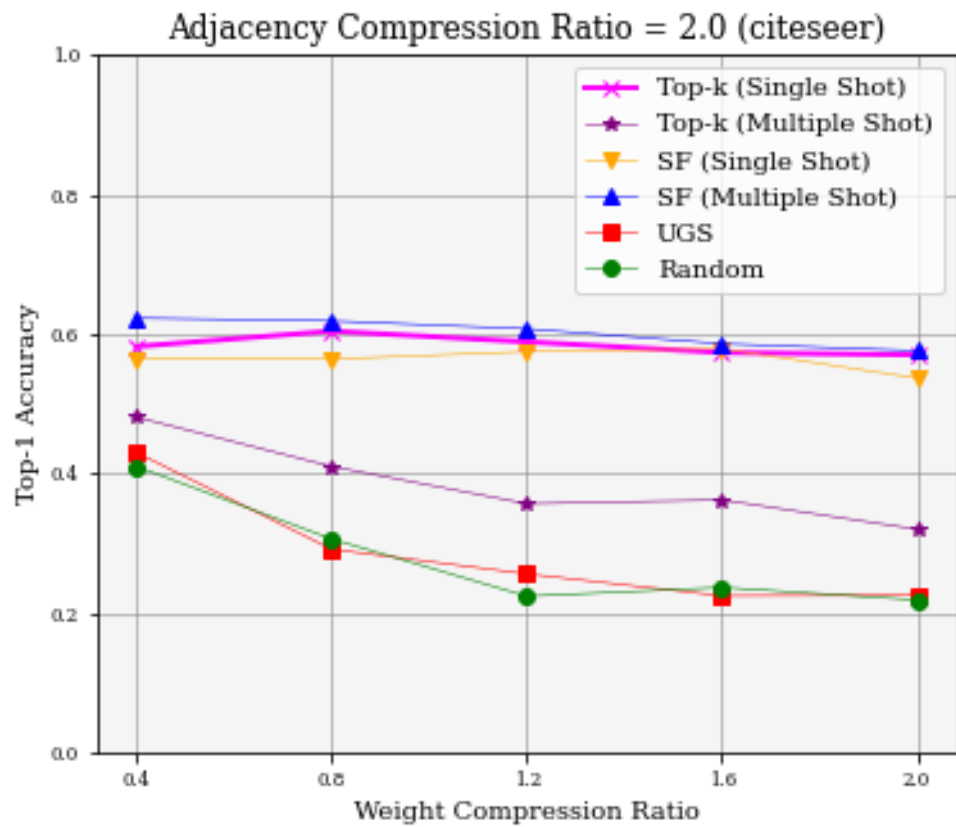


Adjacency Compression Ratio = 1.2 (citeseer)



Adjacency Compression Ratio = 1.6 (citeseer)





- Pubmed
- Wiki

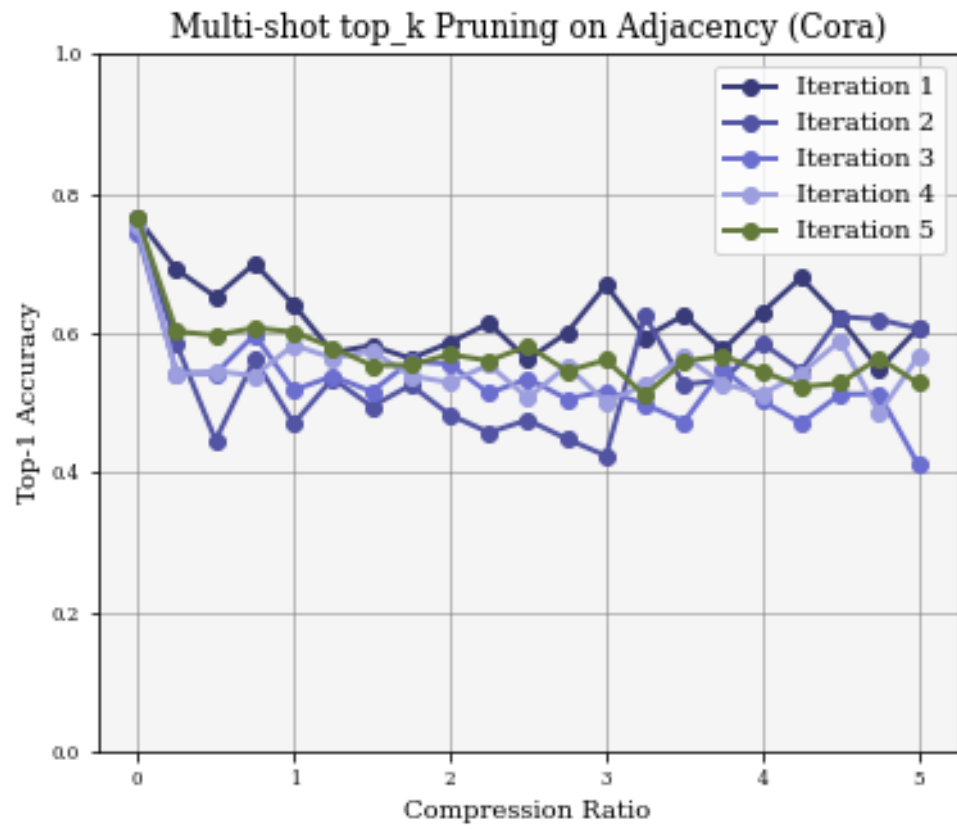
#### 4. Multi Shot Iterations

(1) On Adj: Level 1 to Level 5

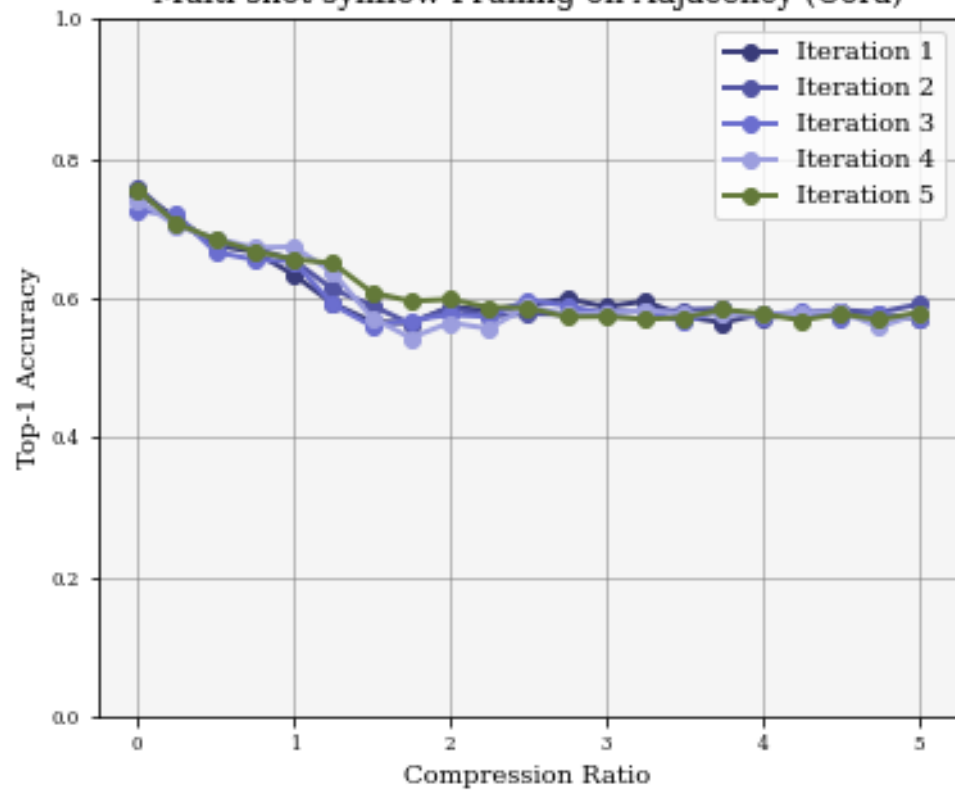
	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1) (Multishot)	DONE	DONE		
Synflow (Multishot)	DONE	DONE		



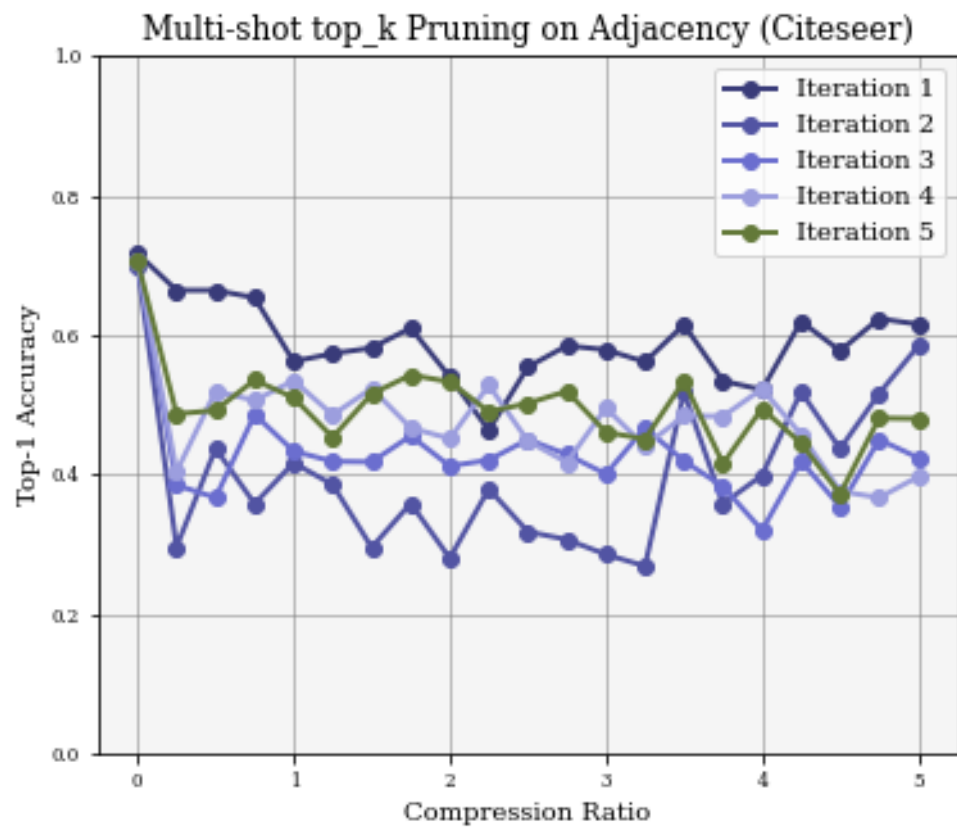
- Cora (Total 1 fig)

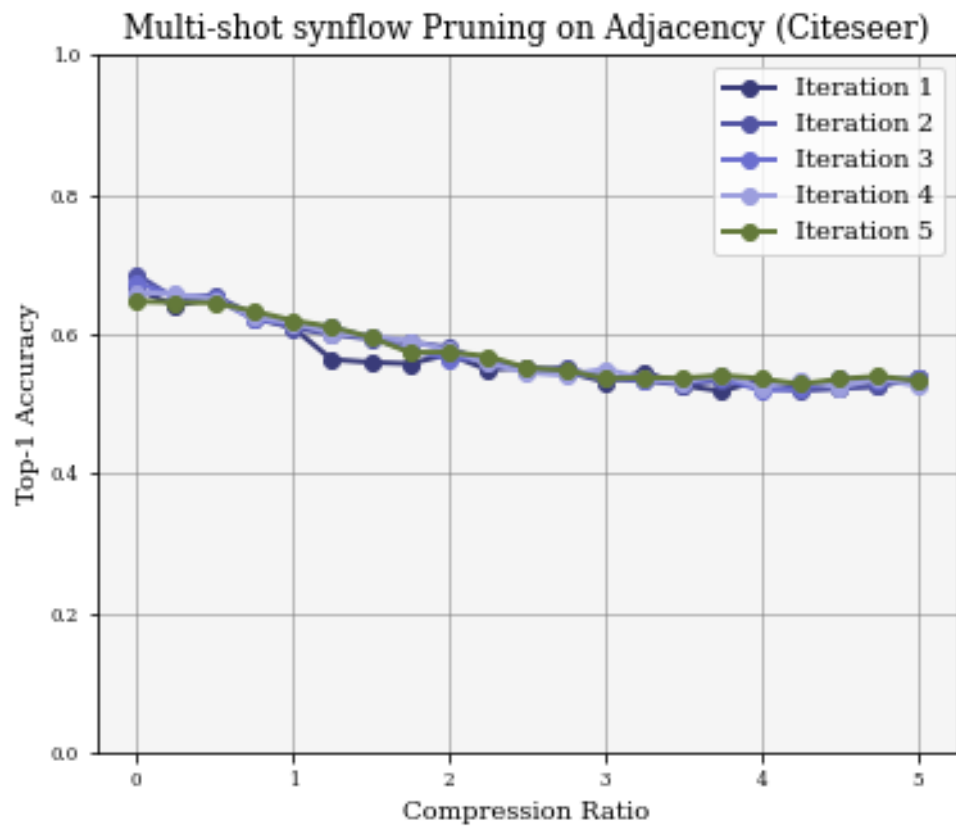


Multi-shot synflow Pruning on Adjacency (Cora)



- Citeseer (Total 1 fig)



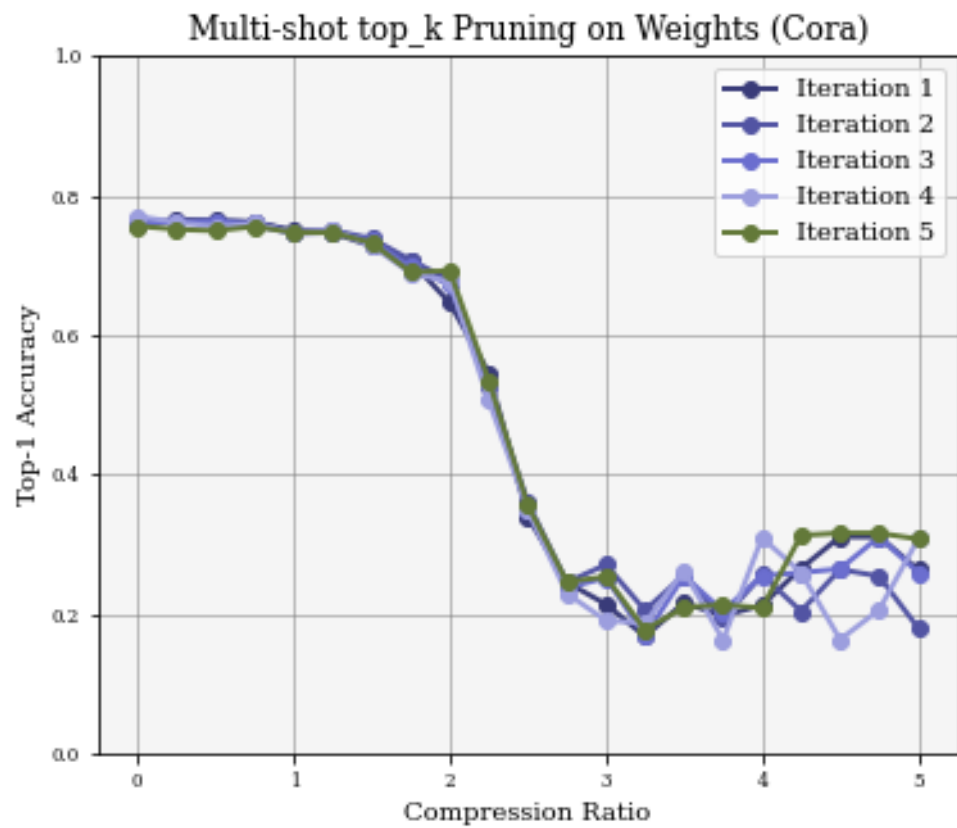


- Pubmed (Total 1 fig)
- Wiki (Total 1 fig)

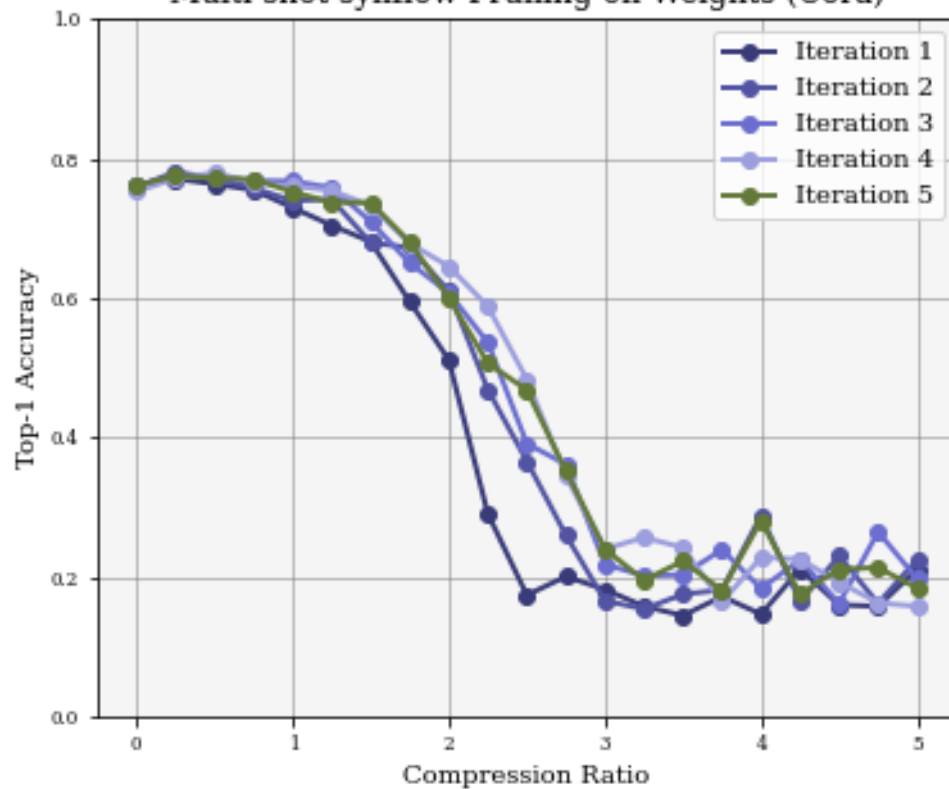
(2) On Weights: Level 1 to Level 5

	Cora	Citeseer	Pubmed	Wiki
Top-k (k=1) (Multishot)	DONE	DONE		
Synflow (Multishot)	DONE	DONE		

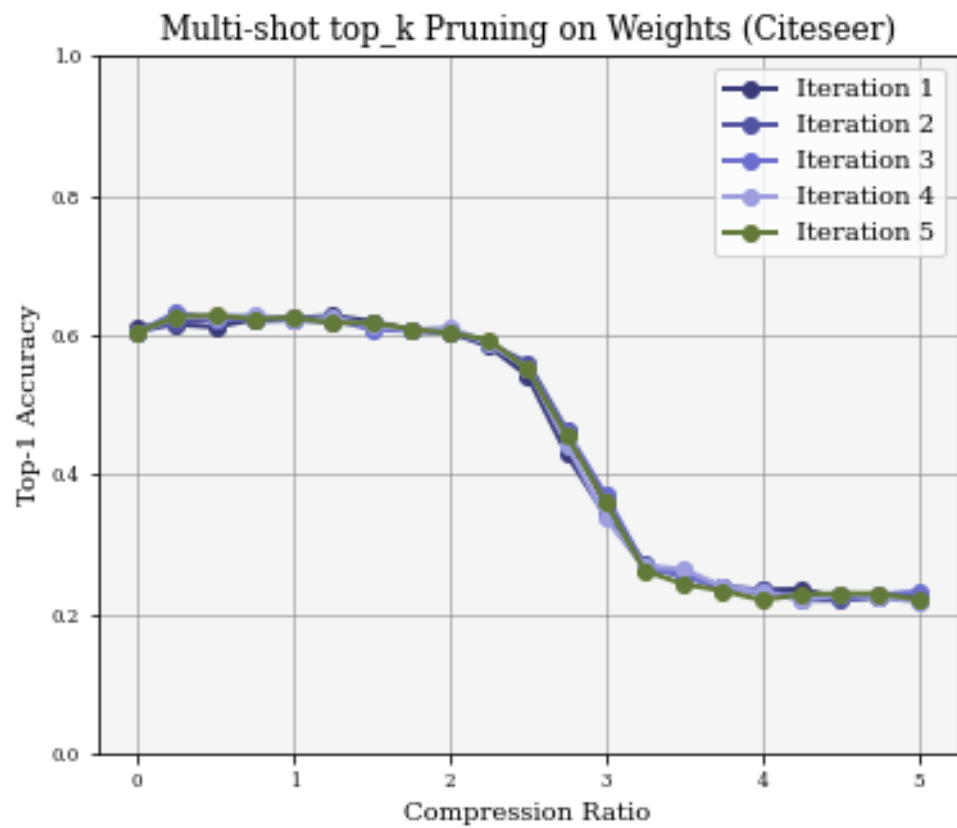
- Cora (Total 1 fig)

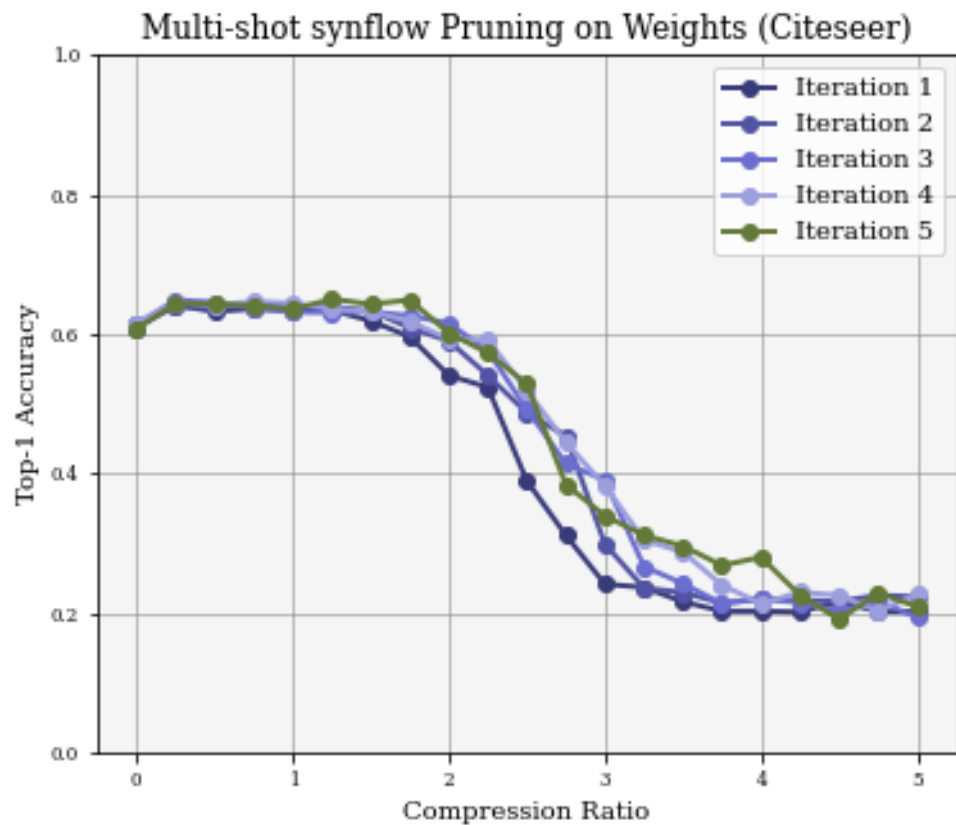


Multi-shot synflow Pruning on Weights (Cora)



- Citeseer (Total 1 fig)





- Pubmed (Total 1 fig)
- Wiki (Total 1 fig)

5. Top-k Selection (Compression Ratio set to 1.0)

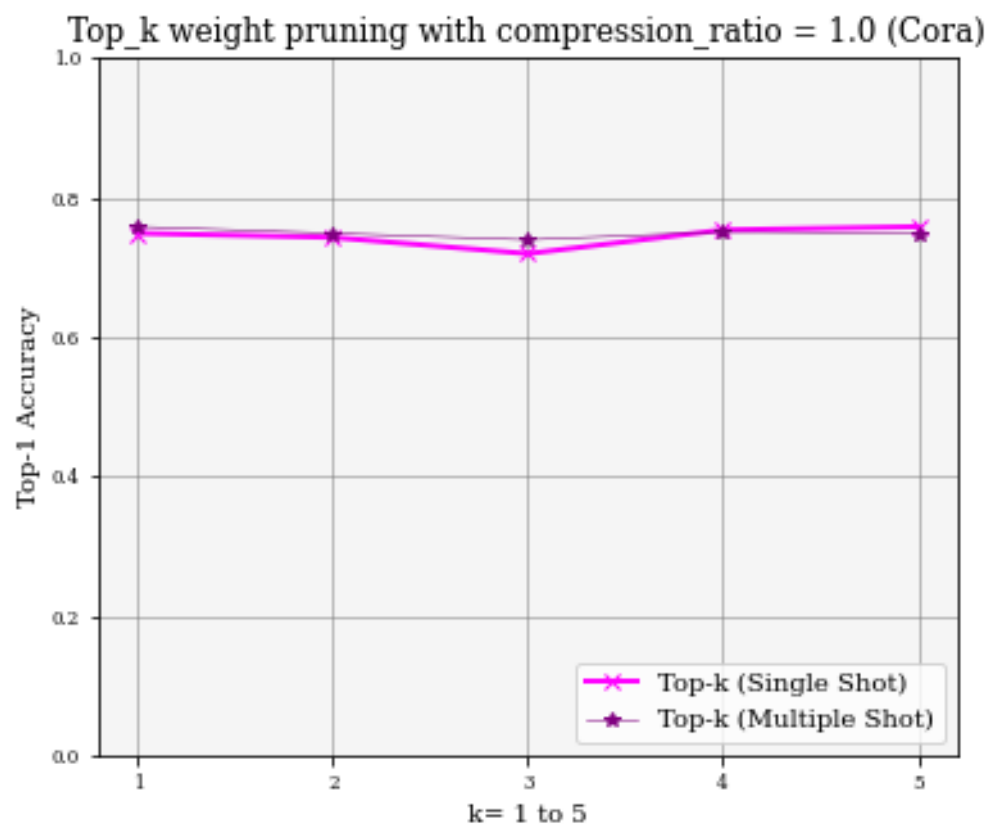
(1) From k to [1,2,3,4,5] on Weights and Adjacency Matrix (Total 2 figures for each dataset)

a. From k to [1,2,3,4,5] on Weights:

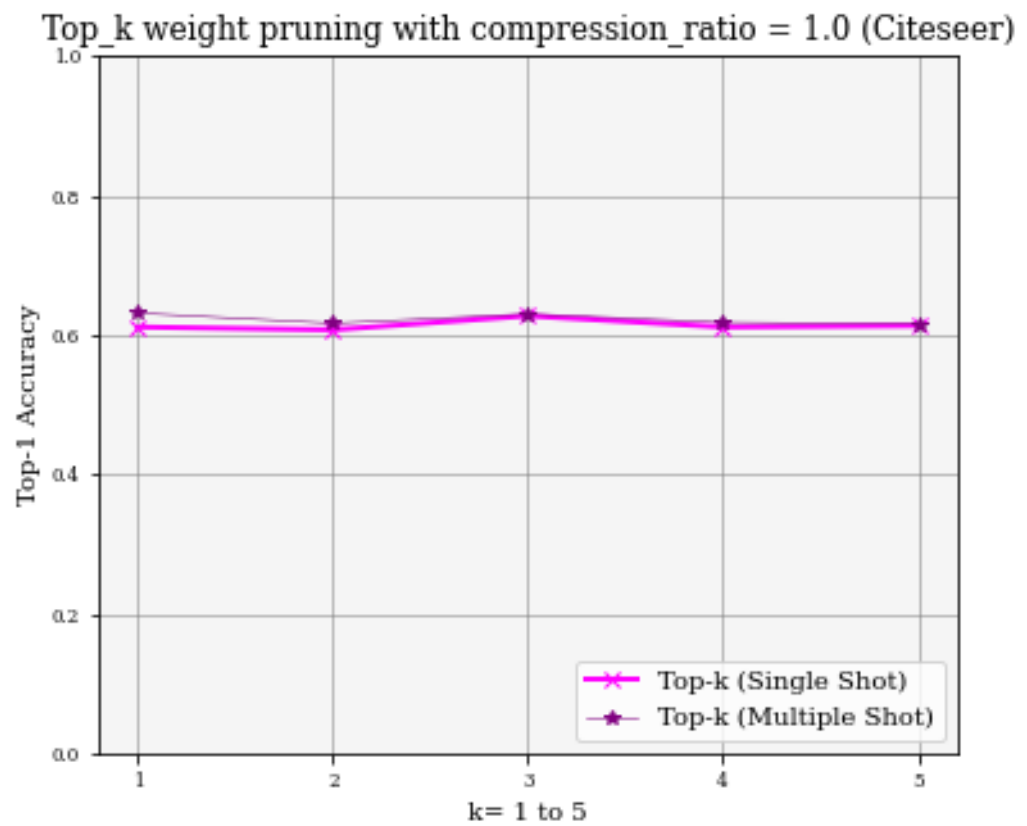
	Cora	Citeseer	Pubmed	Wiki
Top-k (Multishot Levels-5)	DONE	DONE		
Top-k (Singleshoot)	DONE	DONE		



- Cora



- Citeseer

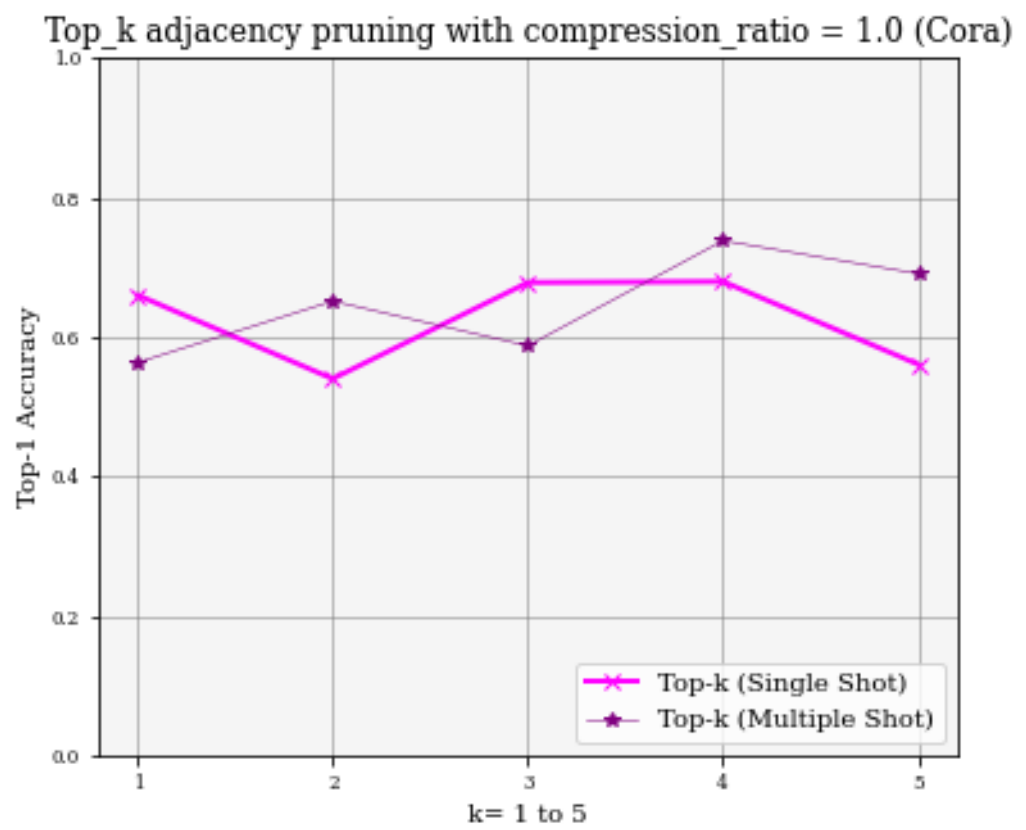


- Pubmed
- Wiki

b. From k to [1,2,3,4,5] on Adj:

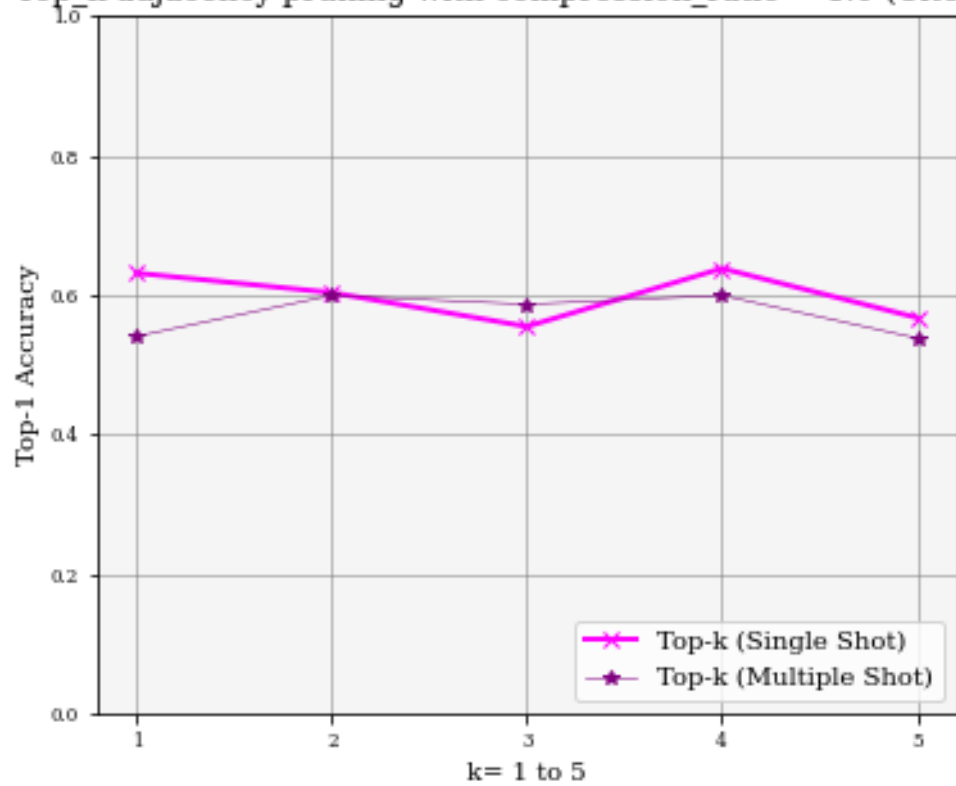
	Cora	Citeseer	Pubmed	Wiki
Top-k (Multishot Levels-5)	DONE	DONE		
Top-k (Singleshoot)	DONE	DONE		

- Cora



- Citeseer

Top k adjacency pruning with compression\_ratio = 1.0 (Citeseer)



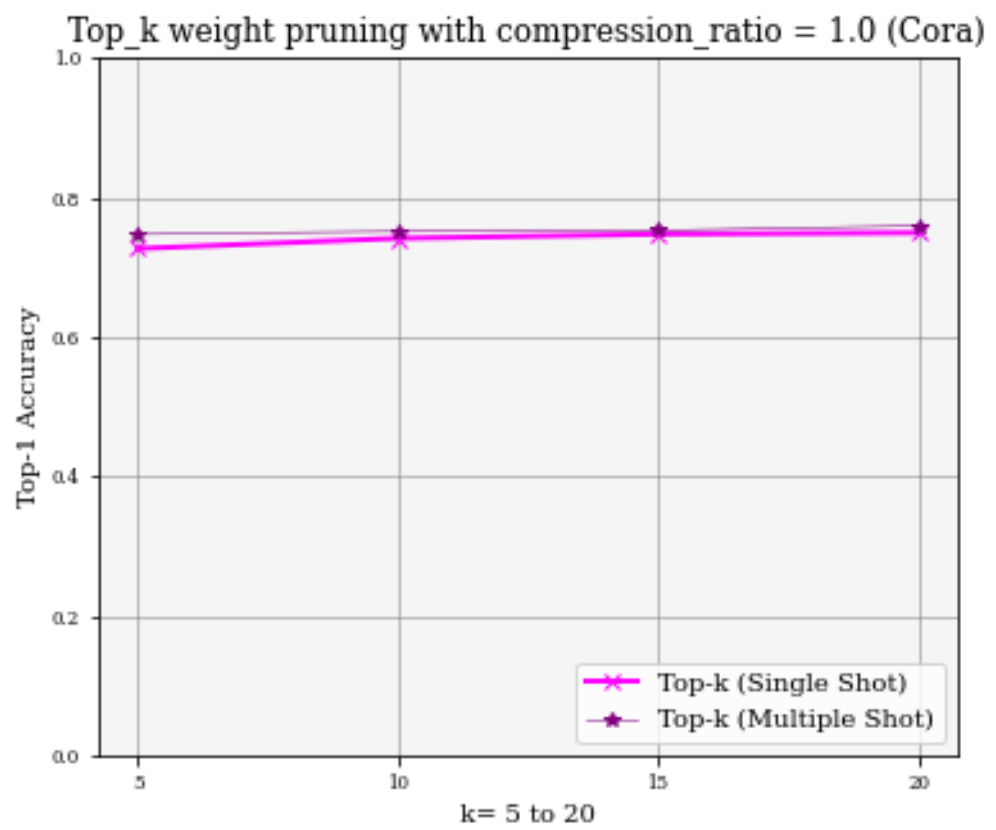
- Pubmed
- Wiki

(2) From k to [5,10,15,20] on Weights and Adjacency Matrix (Total 2 figures for each dataset)

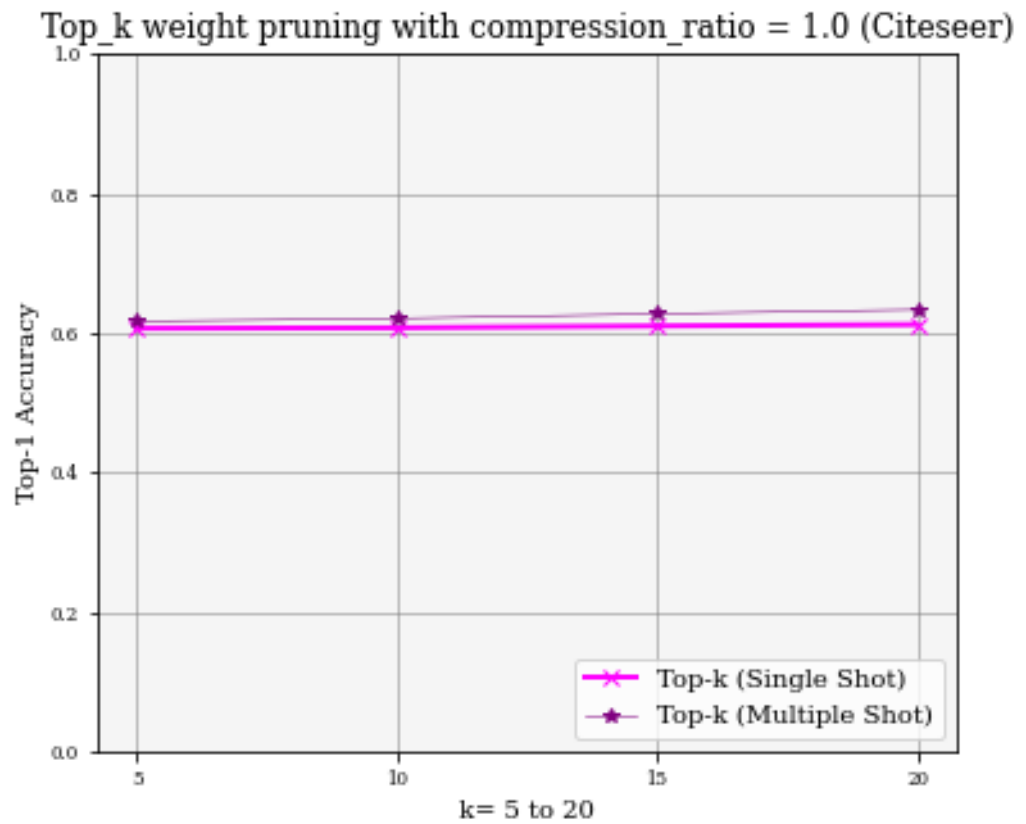
a. From k to [5,10,15,20] on Weights:

	Cora	Citeseer	Pubmed	Wiki
Top-k (Multishot Levels-5)	DONE	DONE		
Top-k (Singleshot)	DONE	DONE		

- Cora



- Citeseer

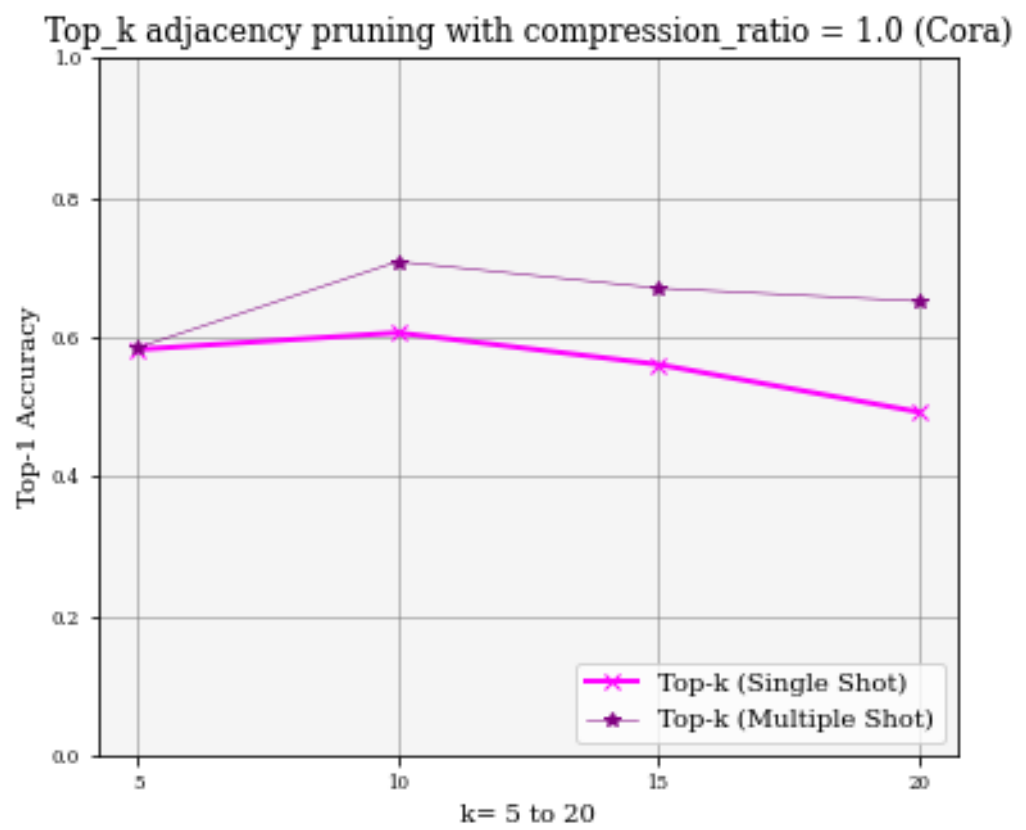


- Pubmed
- Wiki

b. From k to [5,10,15,20] on Adj:

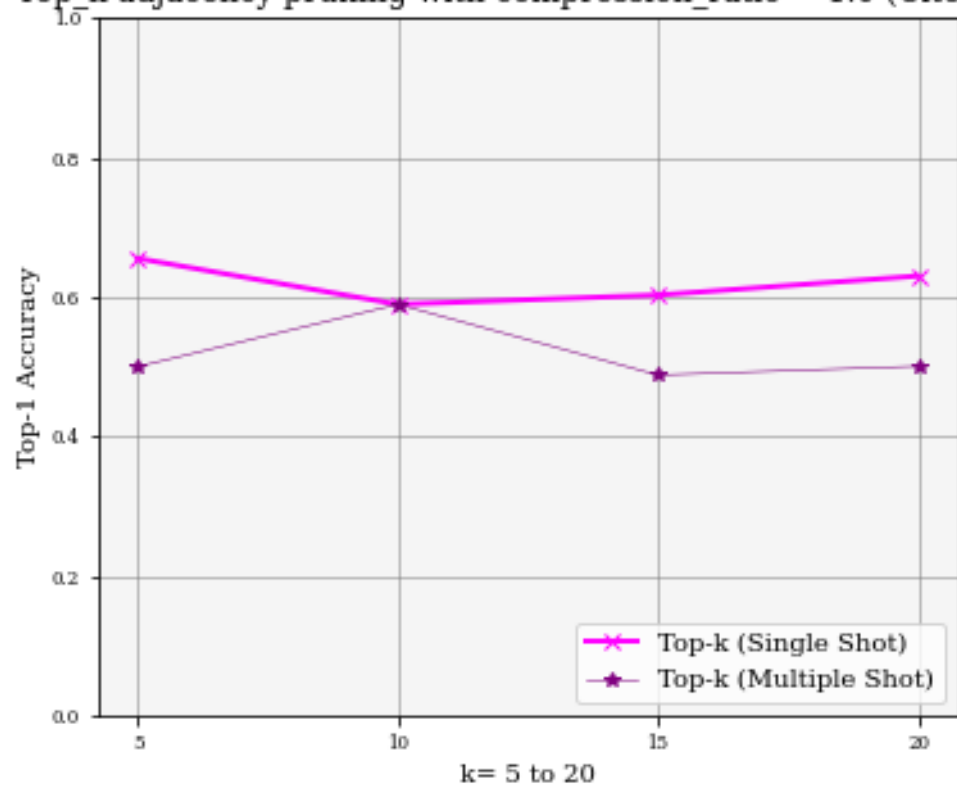
	Cora	Citeseer	Pubmed	Wiki
Top-k (Multishot Levels-5)	DONE	DONE		
Top-k (Singleshot)	DONE	DONE		

- Cora



- Citeseer

Top k adjacency pruning with compression\_ratio = 1.0 (Citeseer)



- Pubmed
- Wiki