Anay Gupta CSE 494: Al for Cyber Security Shakarian - Friday 1 pm April 12th, 2019

Lab 9 Exercises

1. Top 10 nodes by in-degree from merged graph:

	node_id	indegree	
2994	ClockOfTheLongNow	349	
1887	teddilicious	342	
2592	JimmyGroove	304	
4476	chunkypants	302	
194	houinator	279	
1081	BaylorNinja	259	
74	cassander	257	
2248	Dark-Ulfberht	223	
1033	yoda133113	213	

2. Betweenness, closeness, and page rank of top 10 nodes by in-degree from merged graph:

	node_id	indegree	betweenness_cent	closeness_cent	pagerank
2994	ClockOfTheLongNow	349	0.054096994	0.393662506	0.00857284
1887	teddilicious	342	0.037143685	0.392959746	0.00809913
2592	JimmyGroove	304	0.04895396	0.395075593	0.00713213
4476	chunkypants	302	0.045322518	0.391291045	0.00703545
194	houinator	279	0.022697348	0.3871239	0.00737548
1081	BaylorNinja	259	0.032095172	0.381312012	0.00608927
74	cassander	257	0.030404702	0.382970531	0.00611654
2248	Dark-Ulfberht	223	0.026569059	0.373828957	0.00524693
1033	yoda133113	213	0.030138536	0.368509405	0.00477269
1141	uncannylizard	209	0.027278267	0.377713357	0.00493854

3. Recomputed modularity after removing top 10 nodes by in-degree from merged graph:

Modularity before removing top 10 nodes: 0.24630034888138952 **Modularity after removing top 10 nodes: 0.2756273231121626**