

Versions:

Python: 2.7

Spark: 2.2.1

Task 1: Betweenness

bin/spark-submit Ankitha_Radhakrishna_Betweenness.py <rating file path>

Output file : Ankitha_Radhakrishna_Betweenness.txt

Runtime : 71 sec

Task 2: Detect Community

Packages to install:

pip install networkx

bin/spark-submit Ankitha_Radhakrishna_Community.py <rating file path>

Output file: Ankitha_Radhakrishna_Community.txt

Runtime : 383 sec

Modularity: 0.01649

Bonus:

Packages to install:

sudo python -m pip install community

bin/spark-submit Ankitha_Radhakrishna_Task3.py <rating file path>

Output file : Ankitha_Radhakrishna_Community_Task3.txt

Modularity : 0.12106