



FORE School of Management

New Delhi

FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM

END TERM PROJECT

TERM – III

SUBMITTED BY:

Divya Dubey | 025014

Vanshika Jain | 025037

Yatin Chopra | 025039

(PGDM-Big Data Analytics, FORE School of Management, New Delhi)

SUBMITTED TO:

Prof. Ashok Harnal

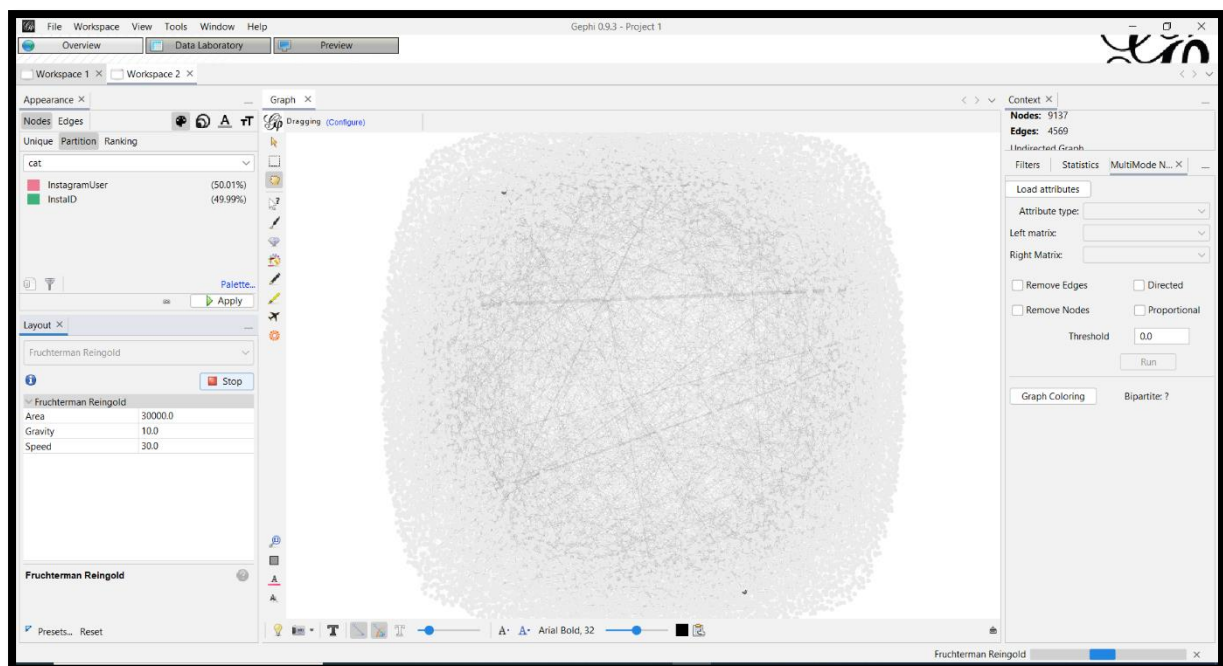
(Faculty, FORE School of Management, New Delhi)

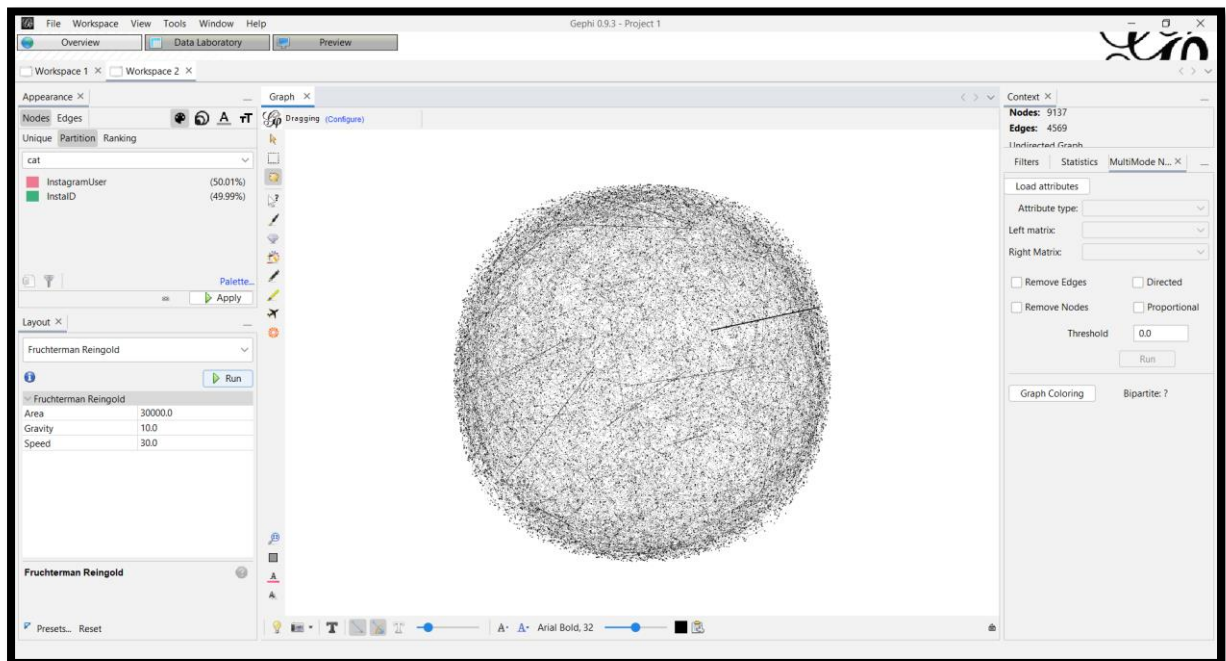
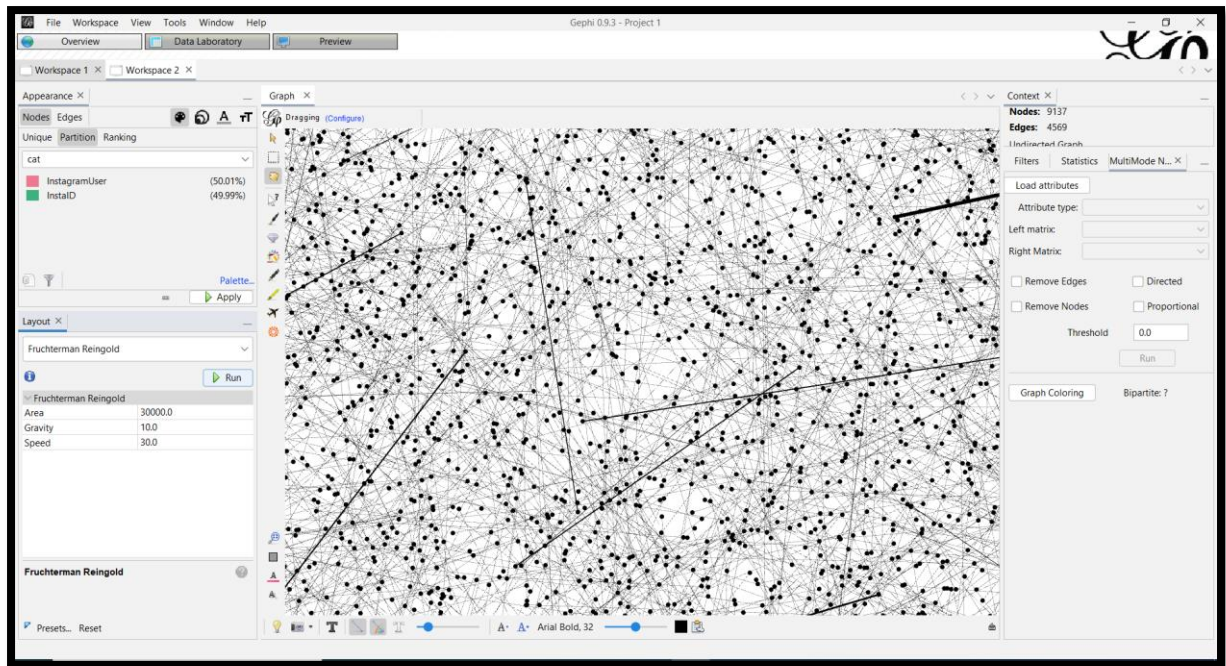
Amber Heard Instagram Comments – Network Analysis

The Social Network Analysis was conducted on Amber Heard’s Instagram Comments Dataset. Two different layouts were generated to analyse the dataset in detail. The same has been depicted in the figures attached.

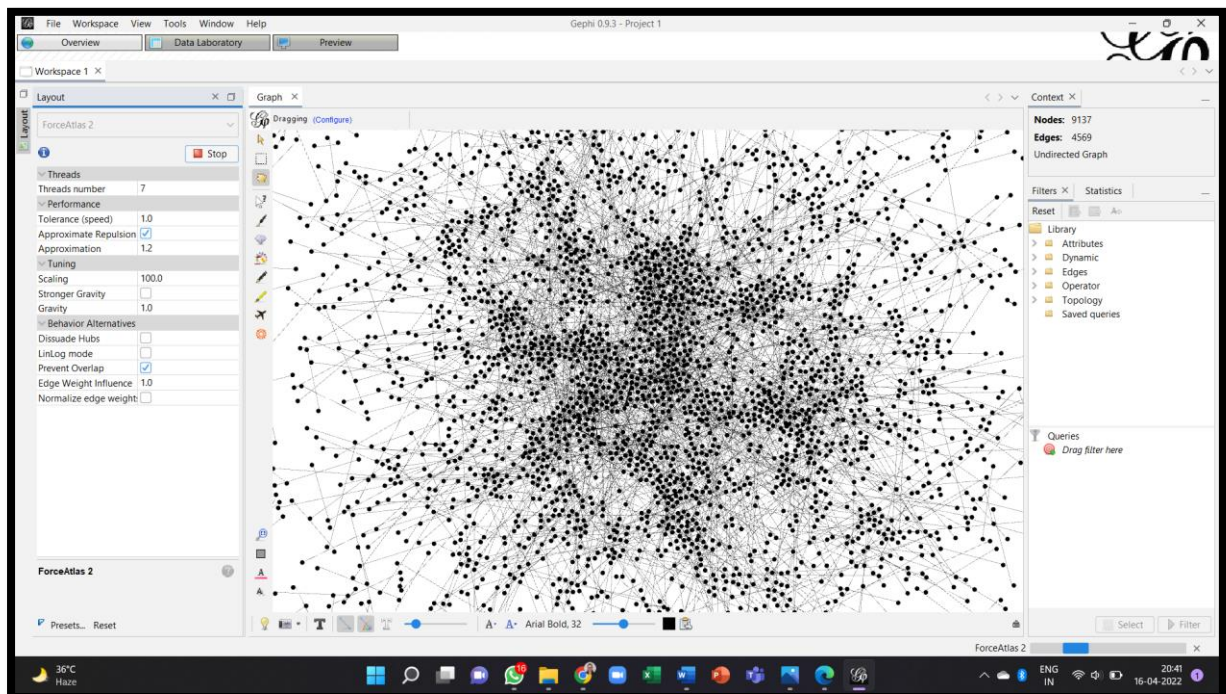
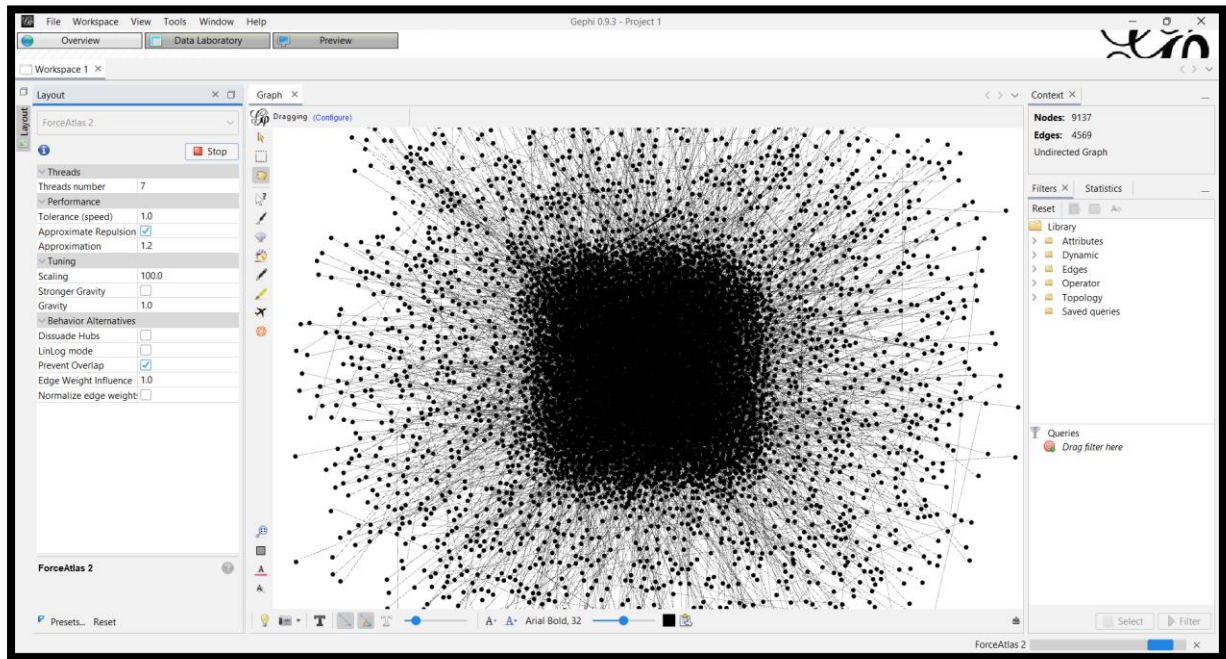
Graph Processing

Fruchterman Reingold

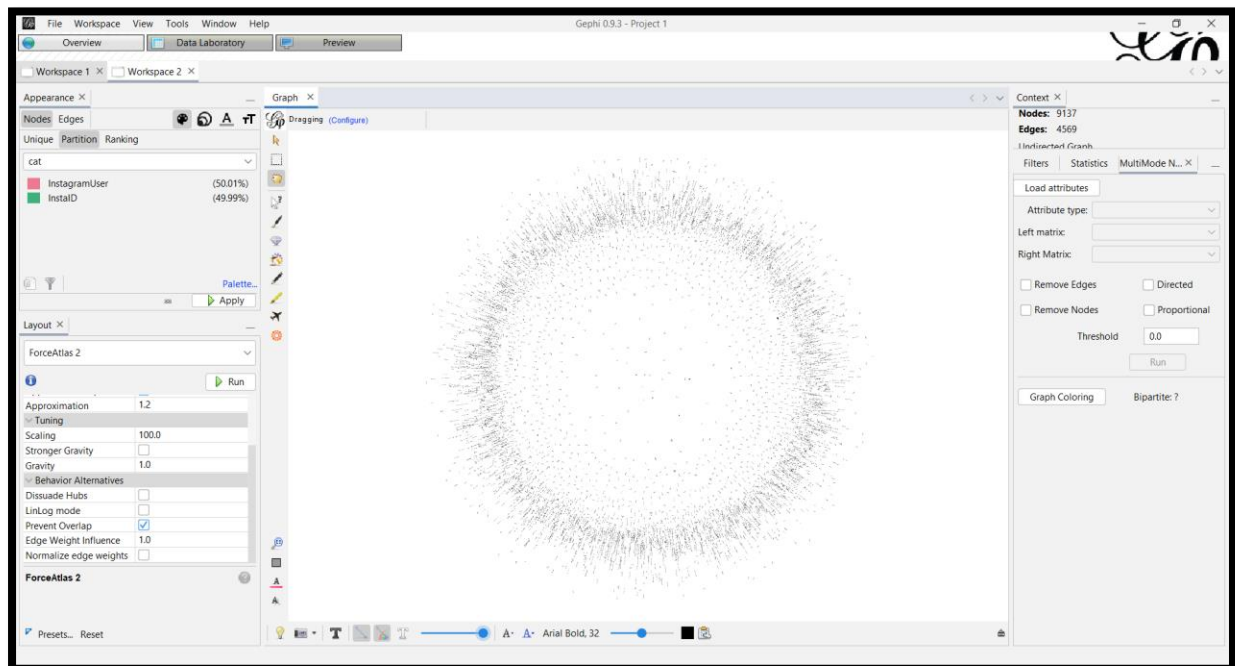




Force Atlas2

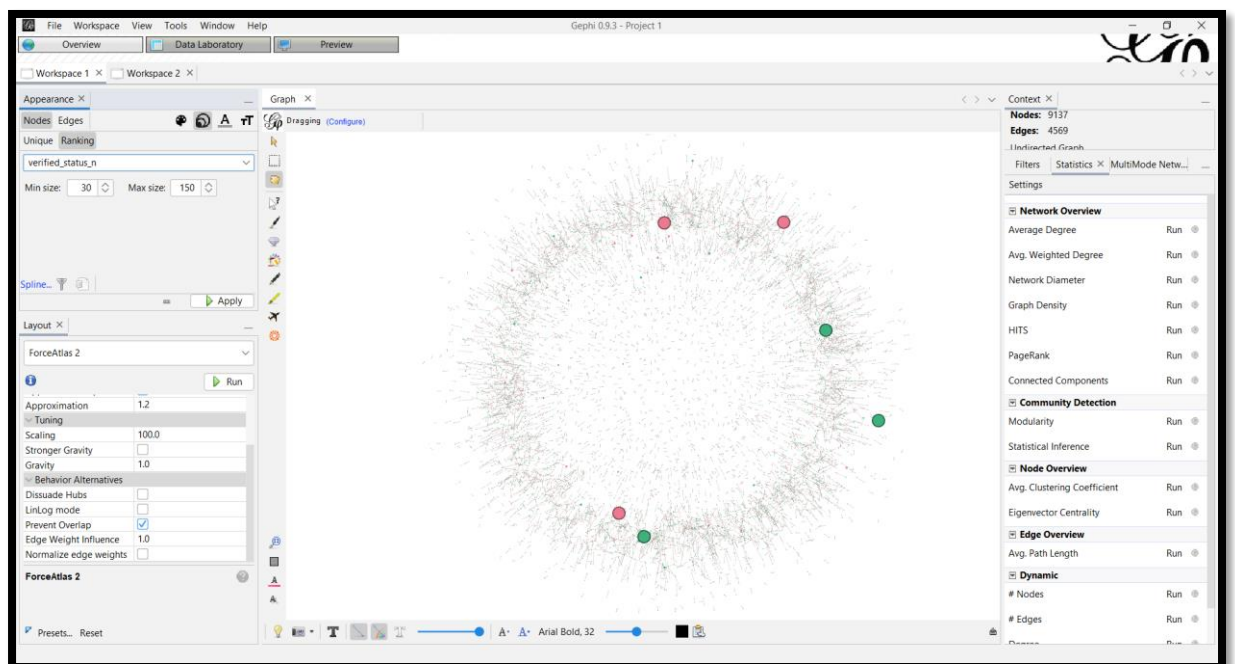


Differentiating Instagram users and INSTAID



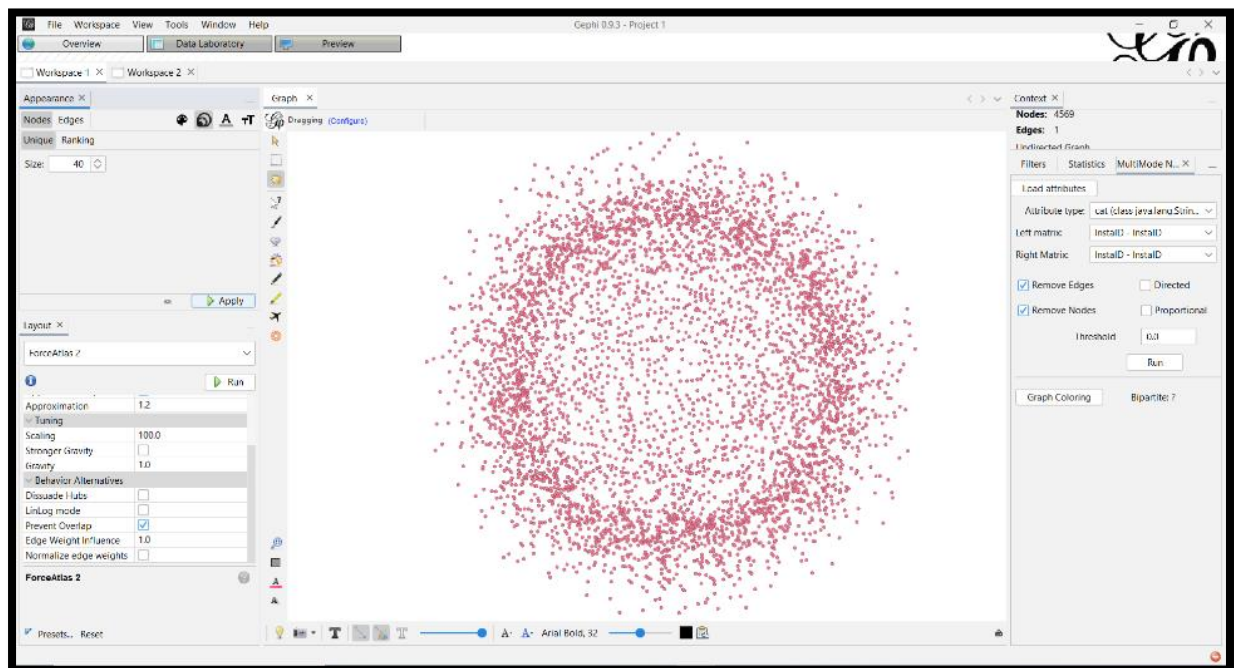
Differentiating verified vs non-verified users

- Ranking according to the status of verification of the user



Projecting two mode graph to one mode graph

- Multi-mode Network for Projections



Analysing network with filters and communities

- Modularity Report

Modularity Report

Parameters:

Randomize: On

Use edge weights: On

Resolution: 1.0

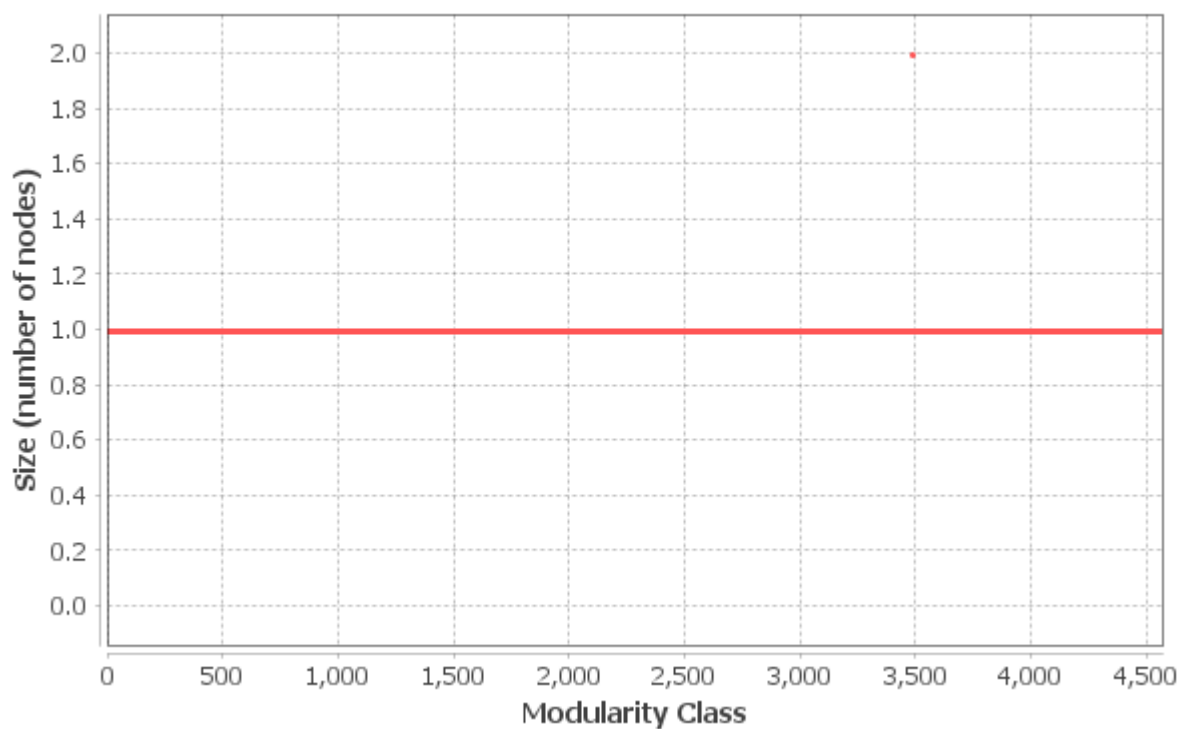
Results:

Modularity: 0.000

Modularity with resolution: 0.000

Number of Communities: 4568

Size Distribution



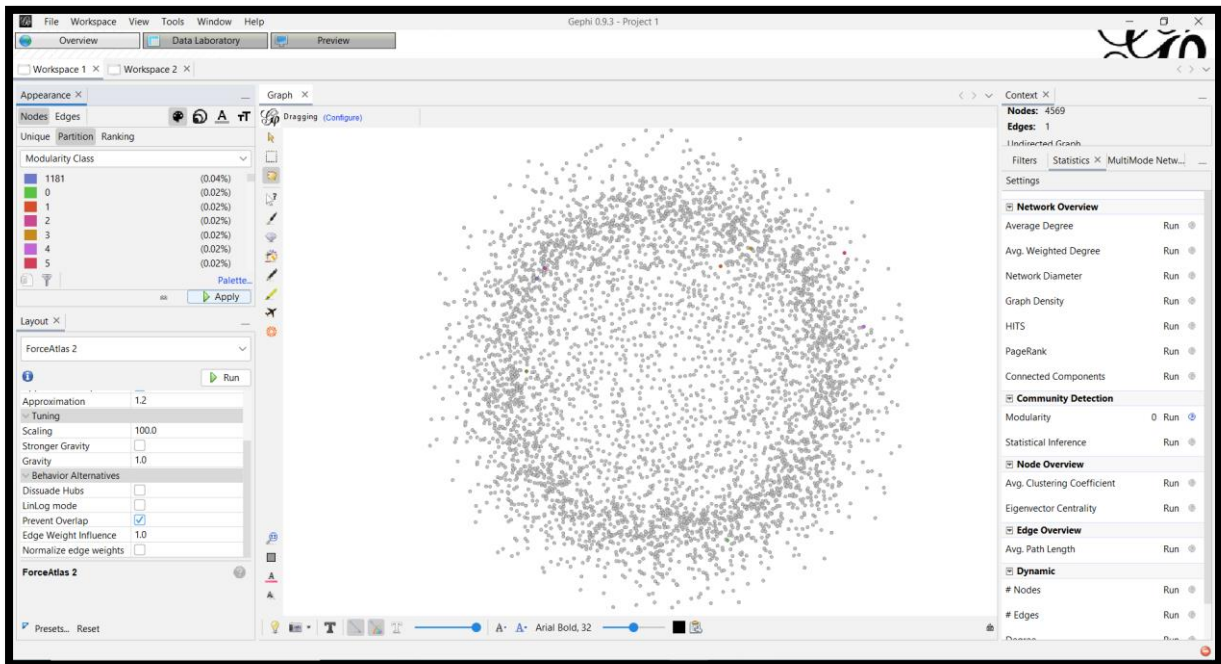
Algorithm:

Vincent D Blondel, Jean-Loup Guillaume, Renaud Lambiotte, Etienne Lefebvre, *Fast unfolding of communities in large networks*, in Journal of Statistical Mechanics: Theory and Experiment 2008 (10), P1000

Resolution:

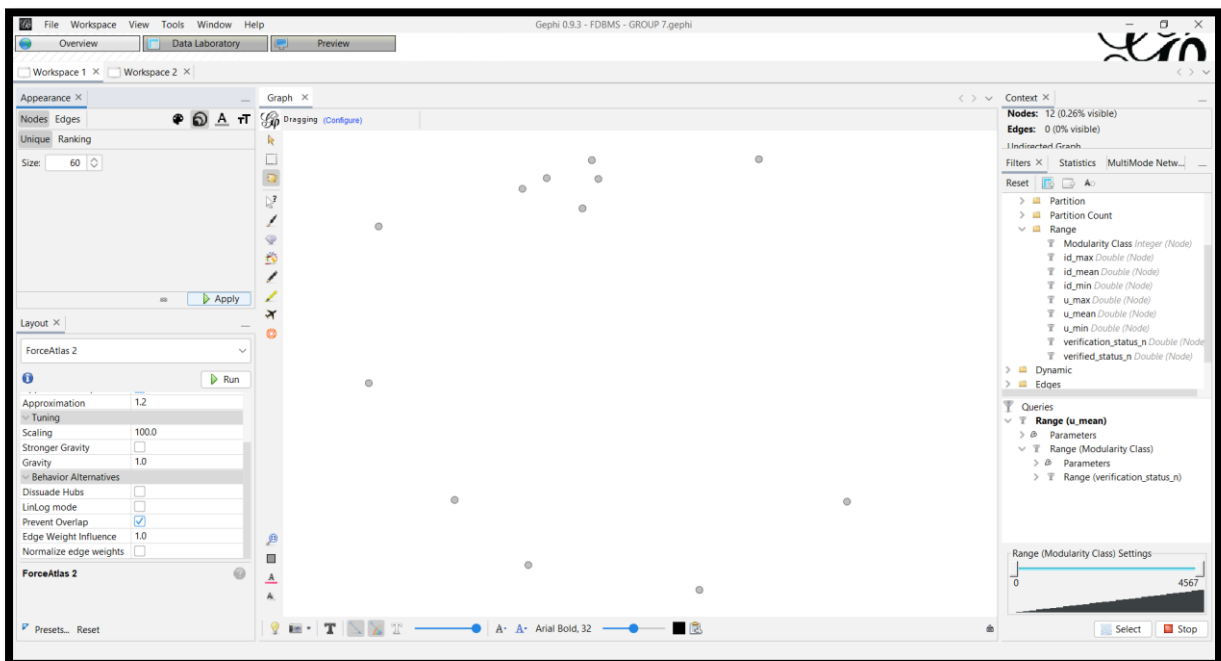
R. Lambiotte, J.-C. Delvenne, M. Barahona *Laplacian Dynamics and Multiscale Modular Structure in Networks* 2009

- Colouring nodes as per community class
The number of communities generated during the modularity test were very high.



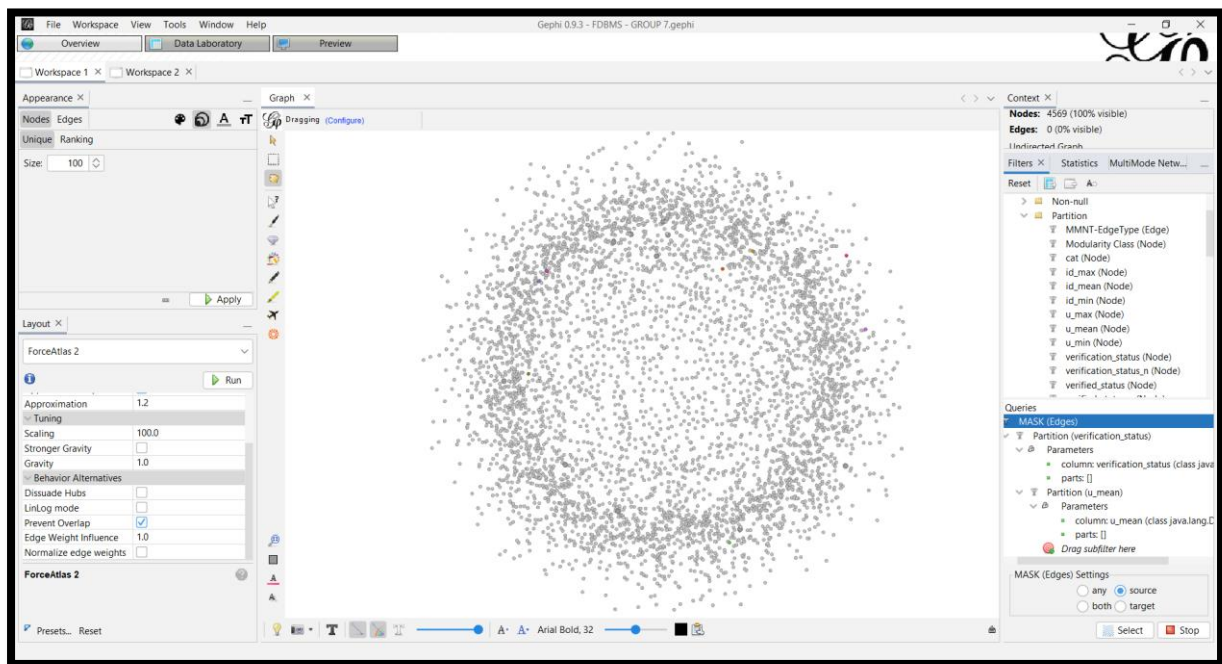
Filtration

- Creating nested filters
As seen in the below image, no network can be built on the basis of the filter applied.

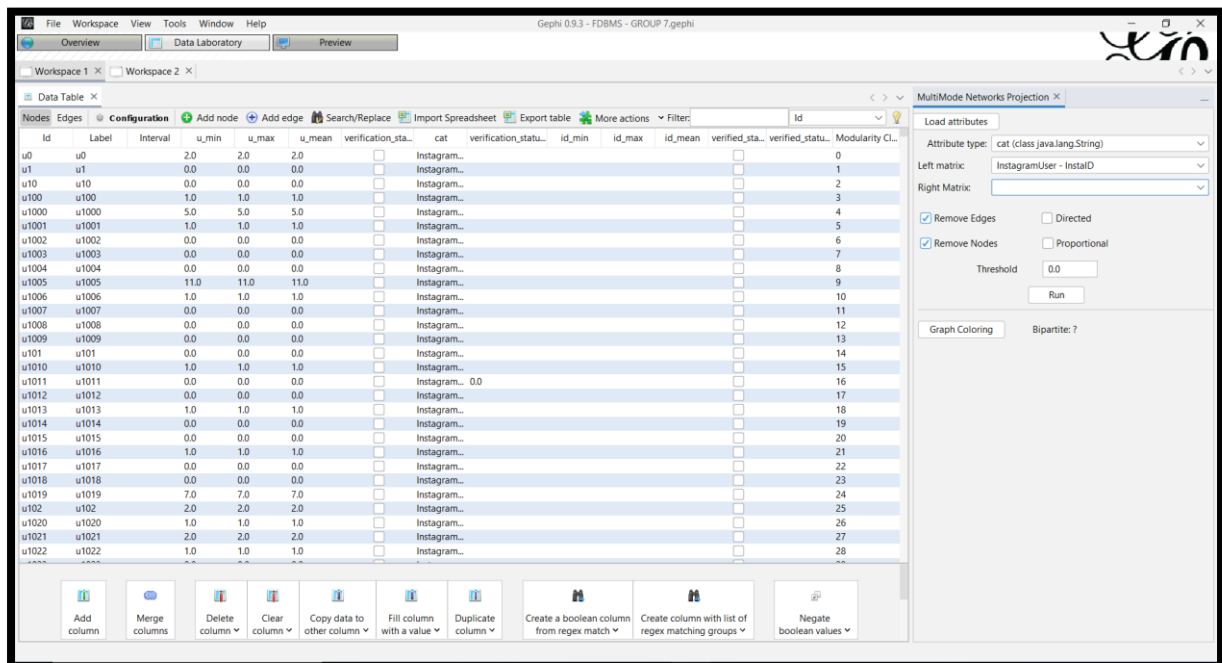


Masking Operator

- Masking the edges of relevant attributes



- Data Laboratory View



Edge Weight Filters

No strong connections found in edge weight filters

