

Project - Twitter Follow Graph

Group 2

Rahul Maheshwari (MT19027)

P Akshay Kumar (MT19094)

Piyush Pradeep Jain (MT19122)

Folder information -

- **CodeFiles** - Contains all the code file notebooks and respective pdf files. This includes code for pre-processing and performing analysis on various datasets. Code for GUI is present in another folder to follow the MVC architecture and separate the code file from the presentation files.
- **Datasets** - Contains all the datasets which are used for the project (including artificially created datasets). The complete dataset for twitter is of huge size (24 GB) and therefore source link for the dataset is given. This dataset can be downloaded from [here \(official link\)](#) and [\(google drive link\)](#).
- **Cumulative Degree Distribution** - Contains pickle files for cumulative degree distribution of all the dataset. For directed graph we have In-Degree and Out-Degree distribution files.
- **Graph properties** - Contains two files having the output value of various properties on the various directed and undirected graph datasets respectively.
- **PageRankImages** – Folder contains the images used in the GUI for showing the highest-ranking page rank node in both Twitter and Facebook datasets.
- **PickleFiles** - Folder contains the pickle files for degree distribution values used for creating plots in GUI which makes the GUI responsive as the values are precomputed and stored in the pickle files.

- **GUI** - Folder contains the python code files and supporting files (support modules + assets) that are used to create the graphical user interface for the project.
- **Standalone Executable GUI** - Contains the standalone executable **Twitter Follow Graph Network.exe** file to run the GUI without having to install all dependencies.

We have also written a blog/article about our project to explain it in an interactive manner.

Please find the blog [here](#).