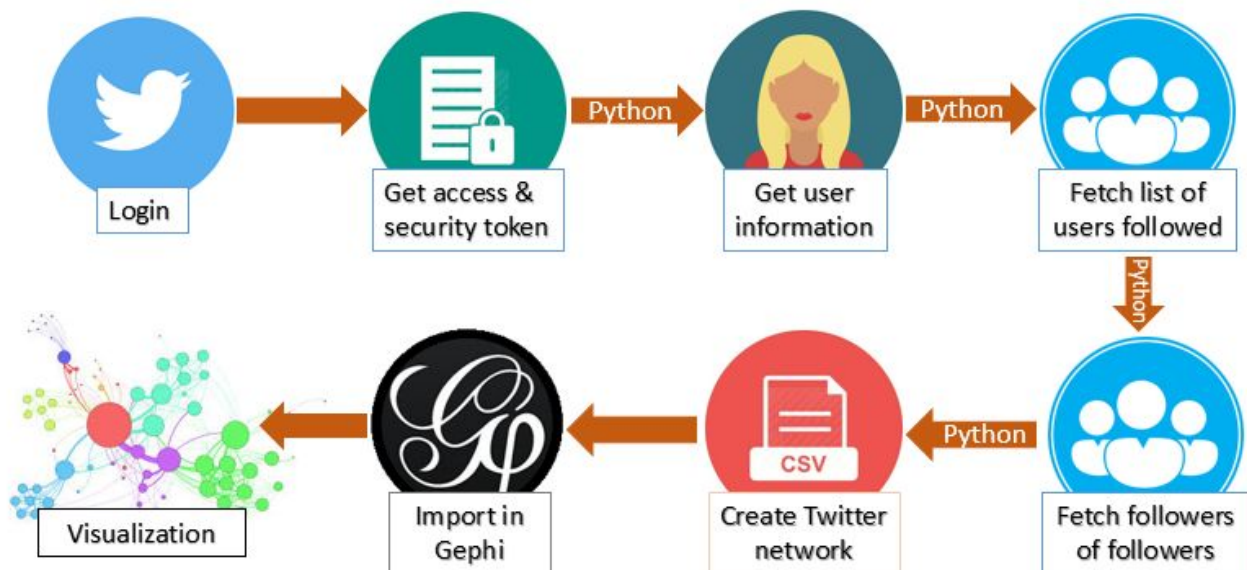


# Graph Theory using Twitter dataset

**Introduction:** To create a directed network of followers (example friends of friends) on social media like Twitter.

## Project Process Flow:



## Explanation of the above process flow in three major steps:

**Step 1:** I choose the social media platform Twitter to build the dataset. Taking an initial user as myself on Twitter, I downloaded information about who I follow. Repeated it recursively until a large network was obtained. Network depends upon the depth chosen while downloading the information about a user. For the mini project purpose, I choose the depth as 2. I wrote the program in Python.

**Step 2:** Generated a directed graph with the downloaded information obtained in the Step 1. I wrote the program in Python to achieve this task.

**Step 3:** Visualization using Gephi (The Open Graph Viz Platform). Gephi is the leading visualization and exploration software for all kinds of graphs and networks. Gephi is open-source and free.

After finishing all the above steps, the resulted graph is as follows.

## Graph of Twitter user: Surbhi Sonkiya

The final graph of Twitter user 'Surbhi Sonkiya' is presented in the document named 'Final\_graph\_twitter\_user\_surbhi'.

The screenshot of the final graph of Twitter user 'Surbhi Sonkiya' highlighting the weight of nodes and ranking of edges is presented below.

