CS 535: Assignment #4

Due on 11:59pm February 27, 2018

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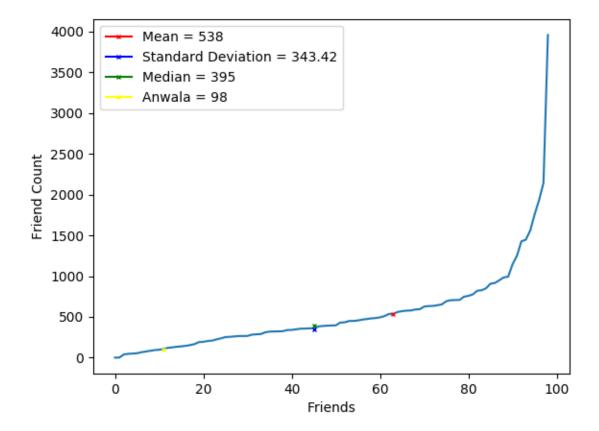
1.1 Question 1

The "friendship paradox" (http://en.wikipedia.org/wiki/Friendship_paradox) says that your friends have more friends than you do.

1. Determine if the friendship paradox holds for my Facebook account. Compute the mean, standard deviation, and median of the number of friends that my friends have. Create a graph of the number of friends (y-axis) and the friends themselves, sorted by number of friends (y-axis). (The friends don't need to be labeled on the xaxis: just f1, f2, f3, ... fn.) Do include me in the graph and label me accordingly.

This used to be more interesting when you could more easily download your friend's friends data from Facebook. Facebook now requires each friend to approve this operation, effectively making it impossible.

I will upload a csv file of my 2014 friends list on the #assignment4 slack channel



2.1 Question 2

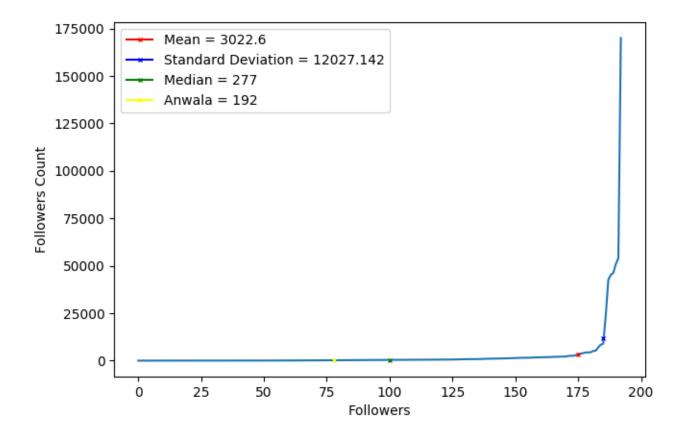
2. Determine if the friendship paradox holds for your Twitter account. Since Twitter is a directed graph, use "followers" as value you measure (i.e., "do your followers have more followers than you?").

Generate the same graph as in question #1, and calcuate the same mean, standard deviation, and median values.

For the Twitter 1.1 API to help gather this data, see:

https://developer.twitter.com/en/docs/accounts-and-users/follow-search-get-users/api-reference/get-followers-list terms and the search-get-users and the search-get-users

If you do not have followers on Twitter (or don't have more than 50), then use my twitter account "acnwala".



3.1 Question 3

Extra credit, 3 points:

3. Repeat question #1, but with your (or a specified) LinkedIn profile.

4.1 Question 4

Extra credit, 1 point:

4. Repeat question #2, but change "followers" to "following"? In other words, are the people I am following following more people?

For the Twitter 1.1 API to help gather this data, see:

https://developer.twitter.com/en/docs/accounts-and-users/follow-search-get-users/api-reference/get-friends-list

