

Project Write-Up

For my project, I chose edges from facebook and edges from twitter. I chose to analyze the average distance between the vertices in the facebook graph and compare it to the twitter edges.

The main thing I noticed is that when I run the code to find the average distance, the result is 'NaN'. I don't know if there is an error in the way I'm doing my code but that is the output I'm getting. Based on this output, I can probably draw the conclusion that there is no distance between them, which is why the outcome is 'NaN'.

The main algorithm I implemented is the Dijkstra algorithm, which is used to calculate shortest paths. Calculating shortest paths probably helps with lowering the calculations for longer paths between the nodes.

As far as extra information, I used chatGPT to help me with debugging my code. When I initialized the empty graph after importing the txt file, I was getting a 'mismatched type' error and I didn't know how to solve it, so I asked ChatGPT to help me with that one line.