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CS581

HW5 Report

The goal of this assignment was to take in a csv file with edges and levels of trusts and distrusts, and identify triads. I found this assignment to be fairly difficult. Using networkx made it easy to identify the number of cliques and separate them into triangles by the size of the cliques. However the hard part was identifying the trusts along the edges of the triangle. It took me a while to write out the correct algorithm to parse the csv file and find the trust or distrust for that specific edge. Finally using a longer line of logic I was able to solve the problem. The one issue currently with the program is the amount of time to run. It takes a very long time to run a long csv file in the current state of the program. This problem could be solved with a more complex and time efficient algorithm.

With the final product, it can be seen that the expected and actual trusts and distrusts differ greatly. This may be true due to the random distribution of the trusts in the csv file. The expected numbers are based on the idea that the trusts are evenly distributed in the cliques. This however is not the case, therefore we see an uneven distribution in the actual values.

This project was interesting because it gave insight into the distribution of trusts in comments and networks. With this algorithm you can identify the relationships throughout a network of comments. This can help to identify which comments are more truthful and potentially reliable.