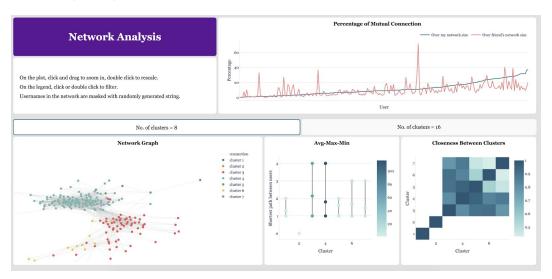
Title - Social Media Network Analysis Application

Description - Networks Analysis of the connection of users on social media can give us great insight and have a decisive influence on events. We developed a Full-stack application for network analysis and data Visualization that enables us to predict results & analyze networks.

Frontend Details and Features

- 1. HTML, CSS, JS
 - a. HTML is used to make the basic structure of the website
 - b. CSS is used to add styling to the website.
 - c. JavaScript is used to make the website more interactive.
- 2. Plotly: Plotly was used to plot all the graphs as shown in the screenshot below. Below are the list of features showcased using Plotly
 - a. Clustering & closeness inspection We also visualize the k-means clustering algorithm to detect sub-groups or communities within the network. We also integrated the backend API for the dynamic data using the cluster.json received from the backend API.
 - b. Closeness Analysis Shortest path algorithms over the dynamic data to find the distance between 2 users or clusters. The results for the was obtained using such as Floyd Warshall as written and further displayed using the was shown by a heatmap shown in the figure given below.



3. AJAX: Ajax was used to send and retrieve data from a server asynchronously. The services written can be used as an & when the component life cycle is initialized in the client browser.