

CS 225 Project Development

Team Members: Bowen Xiao, Richard Przybek, Nathen Smith, Vijay Gopalakrishnan

Week 1: 11/20

Submitted Team contracts as well as went over the dataset and brainstormed how to construct a directed graph. Additionally, we noted down what files contained what and how they related to each other.

Week 2: 12/4

We first implemented a way to parse the files and convert the data into a vector of strings, adapted from the CS 225 Final Project AMA. We also made Makefile changes so that the program could execute with arguments on what ego node to create a graph from. Finally, we implemented DFS on the graph. This week, we also met with our TA and reported our progress. Asked questions about efficiency, visualizing graph output, and general project clarifications.

Week 3: 12/11

This week, we assigned weights to all edges of the dataset. We tested with assigning weights based on the number of nodes that the source and destination point to as well as the number of features. Then, we implemented Dijkstra's algorithm and the Betweenness Centrality algorithm. We also made test cases to test specific situations where DFS, Dijkstra, or Betweenness Centrality might fail (Cycles, disconnected graphs, etc).