CS 225 Final Project Development

Saket Vissapragada, Siddhartha Adatrao, Sruthi Kilari, Shreya Sharma

Fall 2020

1 Week 1

In the first week, we met and decided on the project goals and team contract. Then, we divided up the work evenly between the group, with two people focusing on data pre-processing and the Landmark Path Algorithm and the other two focusing on the BFS traversal and Dijkstra's Algorithm. To begin, we must preprocess the data and create a Makefile and class for the data in order to complete the rest of the project. We will add tests as needed. As we continue with the project, we will have a clearer understanding of the specific tasks that need to be done, and we will assign them accordingly.

2 Week 2

During week two, we focused on implementing the BFS traversal while also preprocessing the data. While preprocessing the data, we ran into issues with the CSV file containing inconsistencies. We met and worked in two groups of two. Next, we will work on implementing both Dijkstra's Algorithm and the Landmark Path Algorithm.

3 Week 3

During week three, we once again worked in groups of two to implement both the algorithms we needed to incorporate. One issue we encountered was with our MakeFile producing a linker error when we tried to compile the code intended to construct the graph of our data. We resolved this issue by manually adding the correct dependencies for each file. We also ran into some issues while implementing Dijkstra's Algorithm. We initially tried to use a priority queue to update the weights, but it wasn't working as we intended.