Rushil Kumar, William Jagels

CS 375

Project Proposal

Propose a new method or combine existing algorithms (including the ones that are covered or not covered by this course) with implementation for solving a practical problem.

**Nearest Neighbor Search**

Finding the closest (or most similar) points to a given point is the nearest neighbor search. Its applications can include finding a set of geospatial points within a radius of a certain point. One method to implement the algorithm is to use k-d trees.

William Jagels - Will work on creating the k-d tree.

Rushil Kumar - Will work on using the k-d tree for the algorithm and researching other possible applications of the algorithm.