**CPE593 DS & Algo Project Proposal**

**Name:** sorting algorithm android application

**Abstract:** In this project we plan to build an android application that can demonstrate the working of the 6 main sorting algorithms and show each iteration step by step by taking the input from the user. We also intend to show the working of the algo graphically and comparing the graphs with other algorithms in real time and also compare the statistics that we get from the working of the algorithm. Further, we also plan to implement the search algorithms and display them in real-time. We would also determine the complexity of these algorithms which will be used for comparison

Tasks:

Sorting algorithms:

* Bubble Sort
* Quick Sort
* Improved Bubble Sort
* Merge Sort
* Selection sort
* Heap Sort
* Insertion Sort

Search Algorithms:

* .Linear search
* Binary search

***Division of work:***

**Sourabh:** Bubble sort, Improved bubble sort, Selection Sort, Linear Search

**Pranit:** heap sort, insertion sort

**Shreyas:** Quick sort, merge sort

**Progress: Check Here:** https://bitbucket.org/sortedgeeks/sorting-demo