## Assignment-3

**Q.1** Construct the Minimum Spanning Tree (MST) on the dataset which you selected in your project.

Deadline: 3rd March 2023

- **Q.2** Identify the expected clusters by deleting the k-number of inconsistent edges of MST, where inconsistent edges are defined as longest edges [1], and k is the number of clusters in your dataset.
- **Q.3** Identify the clusters by deleting edges which reduces the maximum standard deviation of the edges of MST [1].
- **Q.4** Compare the computed clusters of question 2 & 3 in terms of cluster quality and execution time.

## Reference:

[1] Grygorash, Oleksandr, Yan Zhou, and Zach Jorgensen. "Minimum spanning tree based clustering algorithms." 2006 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'06). IEEE, 2006.