**ML Lab (CS360)**

**Assignment 9**

**Total Marks: 30**

**Submission date: 26/10/2023**

1. Cluster the Credit Card Customer dataset ([Download Here](https://www.kaggle.com/datasets/aryashah2k/credit-card-customer-data)) using Agglomerative Hierarchical clustering. Linkage functions to use: **Single, Complete, Average and Centroid**.

\*\* Write your own code to implement the algorithm without using any inbuilt library functions. (20)

1. Implement the same as in (1) using the in-bulit library functions for Agglomerative Hierarchical clustering and validate both the results. (10)