**CS5542 Big Data Apps and Analytics**

**In Class Programming –7**

**8th October 2020**

**Submit ICP Feedback in Class. :** [**Lnik to Feed back Form**](https://docs.google.com/forms/d/e/1FAIpQLSesllFh5_STnj7RbHyQainRG_2EIKw1csp8ObP5FWjpVnGVOg/viewform)

**K-means clustering:**

**Use a different data and use the model provided in ICP7 to perform clustering. You must try 5 different number of clusters (for example n\_clusters= 5 or n\_clusters=6,7,8,or 9 etc) based on elbow curve and for each cluster visualize the clustering results and report your findings in detail.**

ICP Requirements:

1. Successfully executing the code and trying 5 different number of clusters based on elbow curve and visualizing those clusters using python plotting libraries (75 points)
2. Using a new and good dataset (5 points)
3. overall code quality (10 points)
4. Pdf Report quality, video explanation (10 points)

Submission Guidelines:

Same as previous ICPs.