**Capstone Project Submission**

| **Instructions:**  i) Please fill in all the required information. I) Avoid grammatical errors. **Team Member’s Name, Email and Contribution:** |
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| 1. Ghanshyam Menariya   Email id: ghanshyammenariya50@gmail.com  Mobile no: +917689965076 |
| **GitHub Repo link.** |
| GitHub Link: - Ghanshyam Menariya :,https://github.com/ganny55/ |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| **Netflix Movies and Tv Show : Clustering**Data Description Netflix is the world's largest online streaming service provider, with  over 220 million subscribers as present It is crucial that they effectively  cluster the shows that are hosted on their platform in order to enhance the user experience, thereby preventing subscriber churn. italicized text We will be able to understand the shows that are similar to and different from one another by creating clusters, which may be leveraged to offer   the consumers personalized show suggestions depending on their preferences. **Objective** The goal of this project is to classify/group the Netflix shows into certain clusters such that the shows within a cluster are similar to each other and the shows in different clusters are dissimilar to each other.  **Conclusion**   * from elbow and sillhoute score ,optimal of 26 clusters formed , K Means is best for identification than Hierarchical as the evaluation metrics also indicates the same.in kmean cluster 0 has the highest number of datapoints   and evenly distributed for other cluster   * Netflix has 5372 movies and 2398 TV shows,   there are more number movies on Netflix than TV shows.   * TV-MA has the highest number of ratings for tv shows i,e adult ratings * highest number of movies released in 2017 and 2018   highest number of movies released in 2020 The number of movies on Netflix is growing significantly faster than the number of TV shows. We saw a huge increase in the number of movies and television episodes after 2015. there is a significant drop in the number of movies and television episodes produced after 2020. It appears that Netflix has focused more attention on increasing Movie content than TV Shows. Movies have increased much more dramatically than TV shows   * the most content is added to Netflix from october to january * Documentaries are the top most genre in netflix which is fllowed by standup comedy and Drams and international movies * kids tv is the top most TV show genre in netflix * most of the movies have duration of between 50 to 150 * highest number of TV shows consisting of single season * Those movies that have a rating of NC-17 have the longest average duration.   When it comes to movies having a TV-Y rating, they have the shortest runtime on average   * unitated states has the highest number of content on the Netflix, followed by India * india has highest number of movies in Netflix * 30% movies released on Netflix.   70% movies added on Netflix were released earlier by different mode. |