**Capstone Project Submission: Netflix Movies & TV Shows Clustering**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email and Contribution:** |
| **Contributor Name:** Ranajay Biswas  **Email ID:** - ranojoybiswas21@gmail.com  **Contributor Role:**   * Data collection * Understanding Data & Attributes * Exploratory Data Analysis * Pre-Processing * Recommender System * Topic Modelling * Cluster Modeling * Cluster Analysis * Conclusion |
| **Please paste the GitHub Repo link.** |
| Github Link:- https://github.com/RanojoyBiswas/Netflix-Movies-TV-Shows-Clustering---Ranajay-Biswas  Google Drive Link:-  https://drive.google.com/drive/folders/1crbOG9-Ndn00AHM4\_PIVqcC0SW7SRRJa?usp=share\_link |
| **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 is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries and more – on thousands of internet-connected devices. New TV shows and movies are added every week!  Netflix has an extensive library of feature films, documentaries, shows, award-winning Netflix originals, and tons of other contents.  In this unsupervised Machine Learning project, we have to find out different patterns and insights about various movies and shows.  Clustering similar contents and developing a content based recommender system that is capable of recommending new movies and shows to users as per their interests is going to be our main goal.  Performing Exploratory data analysis, insights can be drawn from the data that can be used to better understand the production and demand for different content in different countries. Evaluating genres and content rating for different age groups, we can find out which demographic is dominated by what kind of audience. The insights gained from the EDA can be used for targeting suitable audience.  Analyzing audiences' taste and finding similar content will help to build intelligent recommendation systems that will be able to satisfy the audience's appetite for content consumption.  With the help of topic modelling, we can find the most popular contents’ genres. That can help us understand what type of content is most popular.  Clustering techniques can be used in future when we are trying to categorize movies or shows. It can be helpful to decide what kind of content should be added on the platform based on what type audience we are dealing with. |