**Project proposal**

**Intro**

Netflix is one of the most popular media and video streaming platforms. It offers subscription-based video on demand from a library of films and television series, 40% of which is Netflix original programming produced in-house. They have over 8000 movies or tv shows available on their platform, as of mid-2021, they have over 200M Subscribers globally. This dataset consists of listings of all the movies and tv shows available on Netflix, along with details such as - cast, directors, ratings, release year, duration, etc.

The goal of this study is to analyze the types of listings, and whether Netflix is focused more on streaming TV-shows or movies based on how many listings there are and develop a recommendation model that can suggest shows based on show age category.

**Dataset**:

The data set Netflix_Data obtained from Kaggle has about 8807 rows. Columns of the dataset include( ***show_id, type, title, director, cast, country, date_added, release_year, rating, duration listed_in description)***

Sample

| | show_id | type | title | director | cast | country | date_added | release_year | rating | duration | listed_in | description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | s1 | Movie | Dick Johnson Is Dead | Kirsten Johnson | NaN | United States | September 25, 2021 | 2020 | PG-13 | 90 min | Documentaries | As her father nears the end of his life, filmm... |
| 1 | s2 | TV Show | Blood & Water | NaN | Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban... | South Africa | September 24, 2021 | 2021 | TV-MA | 2 Seasons | International TV Shows, TV Dramas, TV Mysteries | After crossing paths at a party, a Cape Town t... |
| 2 | s3 | TV Show | Ganglands | Julien Leclercq | Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi... | NaN | September 24, 2021 | 2021 | TV-MA | 1 Season | Crime TV Shows, International TV Shows, TV Act... | To protect his family from a powerful drug lor... |

**Tools**:

For the purpose of this study, I obtained a netflix dataset for Kaggle Netflix_Data as .csv file. I'll be using pandas, seabon, and matplotlib to visualize the data and do some cleanup. Programming using python will be on a Jupyter notebook.

**To Do:**

Investigate the dataset, and perform exploratory data analysis to come up with a model that can help with interpreting Netflix focused areas.

Develop a model that can recommend Netflix shows based on the appropriate age category.