**Building an Anime Recommendation System**

Anime is the Japanese term for animation, which means all forms of animated media.

The dataset has been taken from Kaggle. It has two set of files, Anime.csv and Ratings.csv in total it has 12,294 anime and 73,516 user ratings based on user’s preference.

URL: https://www.kaggle.com/CooperUnion/anime-recommendations-database

In entertainment-based products like anime/movies prediction are mostly based on the assumptions that is if a user likes mostly thriller or fantasy-based movies like Harry Potter or Death Note, it’s likely that the user will like another thriller or fantasy movies or series.

Idea is to build an anime recommendation system which can recommend a good anime suggestion based on the user’s ratings and the type of the genre user is interested in.

Anime.csv has following features:

* anime\_id - unique id identifying an anime.
* name - full name of anime.
* genre - comma separated list of genres for this anime.
* type - movie, TV etc.
* episodes - how many episodes in this show. (1 if movie).
* rating - average rating out of 10 for this anime.
* members - number of community members that are in this anime's "group".

Ratings.csv has following features:

* user\_id - randomly generated user id.
* anime\_id - the anime that this user has rated.
* rating - rating out of 10 this user has assigned (-1 if the user watched it but didn't assign a rating).

**Approach:**

I am using collaborative based filtering in recommending good anime to users. Main idea is to cluster users of same preference into a cluster and then recommend to a user if series/movie was rated good and its genre by the community to that user within that cluster.