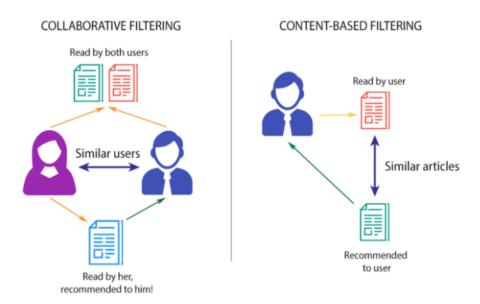# Pratilipi Assignment

Problem Statement

Based on the given user data we need to give suggestions to a user, which Pratilipi should they read next.

So first I did was to explore the dataset, and found that many partilipies have different category_name in different rows so I merged them into a single row using groupby
I created two dataframes one for content-based filtering where we are only considering pratilipi category_name it only recommended based on what a user has read previously

Then I choose to select or consider author_id and user_id and try to figure out similar behavioral users and give recommendations based on what similar users are reading. This is also known as collaborative filtering.

After then I choose the Bow technique to create vector matrixes from both the dataframes With the help of CountVectorizer. Then using cosine similarity got a similarity matrix for both the dataframe.

Then created functions that will give recommendations based on the similarity matrix.

An Overview of Recommendation Systems