**Problem statement**

The goal of this project is

* To predict the revenue of a particular movie.
* To classify whether a movie will be hit or flop.
* To build recommendation system

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| **1.context**  Nowadays, we need recommender systems almost everywhere in our lives. Therefore, retailers are becoming more interested in recommender systems to analyze patterns of user interest in products and provide personalized recommendations. The first goal of this project is understanding, analyzing, and correlating the trend in average rating movies of different genres. The second goal is building recommender engines to provide recommendations to different users and build different machine learning models to predict the rating of each movie.  **2.Criteria for success**  Build the recommendation engine using collaborative filtering, content based filtering, matrix factorization. Compare all the models using MAP metric and consider which model performs the best.  **3.Scope of solution space**  Giving good recommendations directly entails one or many of the following:  1. Customers buy a particular product or service leading to increased revenue or sales. 2. Customers use the platform more frequently due to the quality and relevance of content shown to them.  3. Better User Experience. Customers spend less time searching and more time watching. The pain of discovery is eliminated. | **4. Stakeholders to provide key insights**   * Rahul Sagrolikar-Data science career track mentor, Springboard * Springboard-data science community platform   **5.Key data sources**   * data is sourced from Movielens research which is in csv format. * <https://grouplens.org/datasets/movielens/25m/> * TMDB 5000 movie data set * <https://www.kaggle.com/tmdb/tmdb-movie-metadata> |