Project 4 Proposal

**Date:** 2/23/2022

**Team Name:** Paramount Predictors

**Team Members:** Michaela Giandello & Rebecca Melo

**Topic:** Movie Statistic Predictions

**Hypothesis:** Users will be able to visit this interactive dashboard to view movie statistics from movies that are already out in theaters or no longer in theaters. They will also be able to view predictions regarding upcoming movies. This dashboard is based off of movie data dating from 1980 - current day. We plan to predict how upcoming movies will rank based on previous movies with similar aspects such as: director, genre, runtime, budget, rating (IMDb), writer, actors, language, country, star, and plot.

**Data to be Utilized:**

* API - <http://www.omdbapi.com/>
* Data Set - <https://www.kaggle.com/danielgrijalvas/movies>
* Box Office Website - h[ttps://www.the-numbers.com/box-office-records/domestic/all-movies/cumulative/all-time](https://www.the-numbers.com/box-office-records/domestic/all-movies/cumulative/all-time)

**Procedures:**

* Conduct research via API/web scraping and CSV sources
* Dashboard page with interactive charts and graphs visualizing our data
* We  plan to use:
  + Python Pandas
  + Python Matplotlib
  + Tableau
  + HTML/CSS/Bootstrap
  + Heroku