

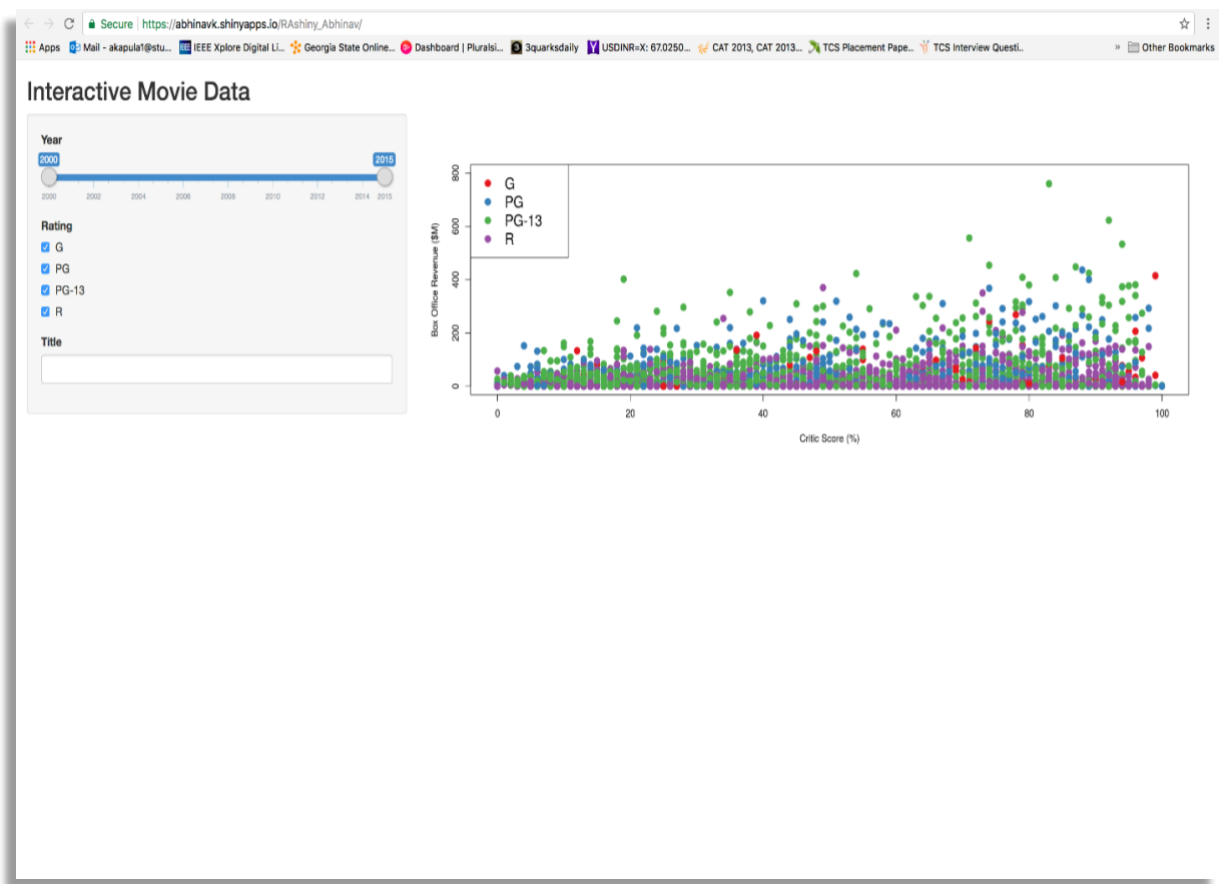
FINAL PROJECT REPORT

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Introduction:

The Interactive Movie data Visualization shows critic score, ratings and box office revenue of all Hollywood movies. The Motion Picture Association of America began its voluntary movie rating system in 1968. Producers who submit their films for rating by the MPAA will receive one of the following ratings that are now in use:



G: General Audiences. All ages admitted.

PG: Parental Guidance Suggested. Some material may not be suitable for children.

PG-13: Parents Strongly Cautioned. Some material may be inappropriate for children under 13.

R: Restricted. Under 17 requires accompanying parent or adult guardian.

These ratings are assigned by a board of parents who consider factors such as violence, sex, language and drug use and then assign a rating they believe the majority of American parents would give a movie. The purpose of

these ratings is to provide parents with advance information about the content of movies to help them determine what's appropriate for their children.

Design of the program:

In order to visualize the movie ratings data, we have used R language here. And particularly we have used R shiny, dplyr libraries. Further, we have taken into consideration movies, which are released during 2000 to 2015. Moreover, movies are rated on four categories namely 'G', 'PG', 'PG-13', 'R'. For visualization requirements we have taken critic score on the x-axis and box office revenue data on the y-axis, which you can see in the following figures. Whenever user searches on the particular movie our project will show the rating, critic score and box office revenue.

How to compile the code:

As we have developed this project in R using Rshiny package, we can execute the code in Rstudio. Please find that attached executable file.

How to use the program:

Whenever user searches on the particular movie our project will show the rating, critic score and box office revenue. You can see in the fig2 that when we feed the input "Harry Potter" in the Title box, it showed eight dots which indicates harry potter eight series. In addition to that it is showing critic score and revenue for each movie.

Visualizations:

- 1) Visualization of all ratings of movies, which released during 2000 to 2015 on android mobile.

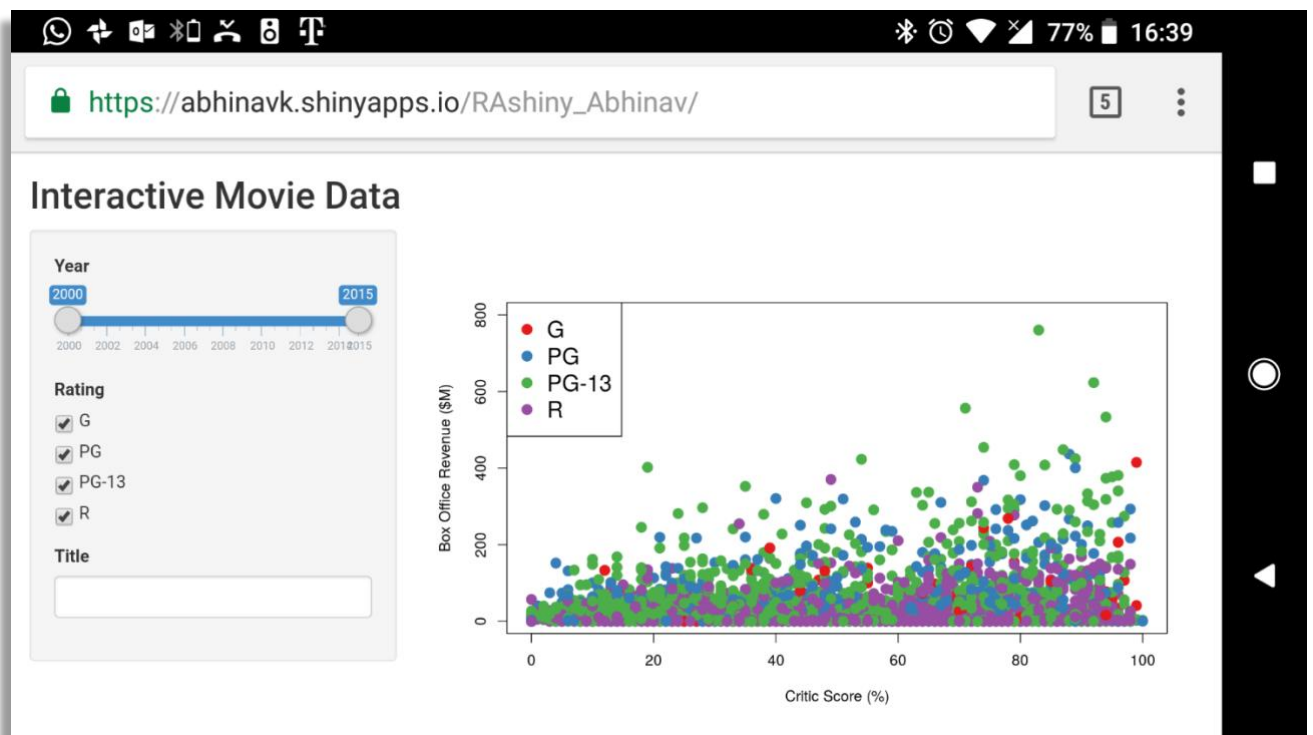


Fig1: Visualization on android mobile

2) Visualization of all ratings of Harry Potter movie on desktop.

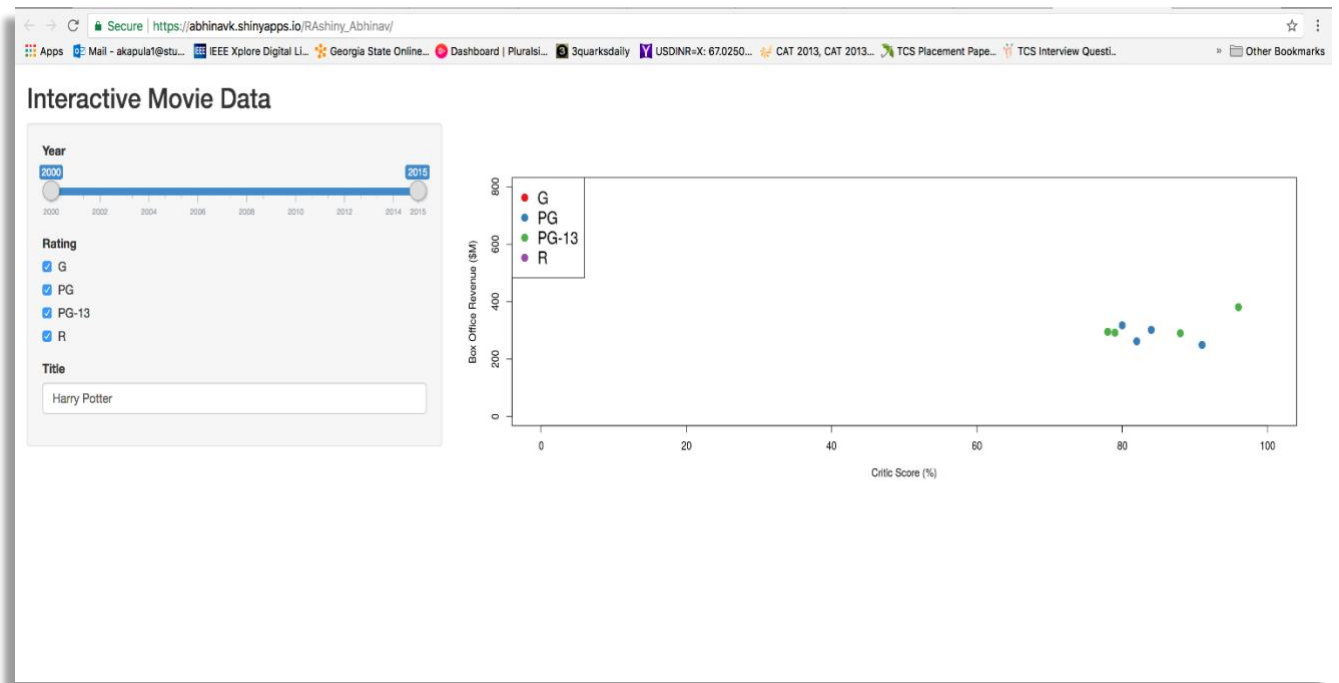


Fig2: Visualization of ratings for the Harry Porter movie on desktop

3) Visualization of all ratings of movies which are starting with 'Dragon' word.

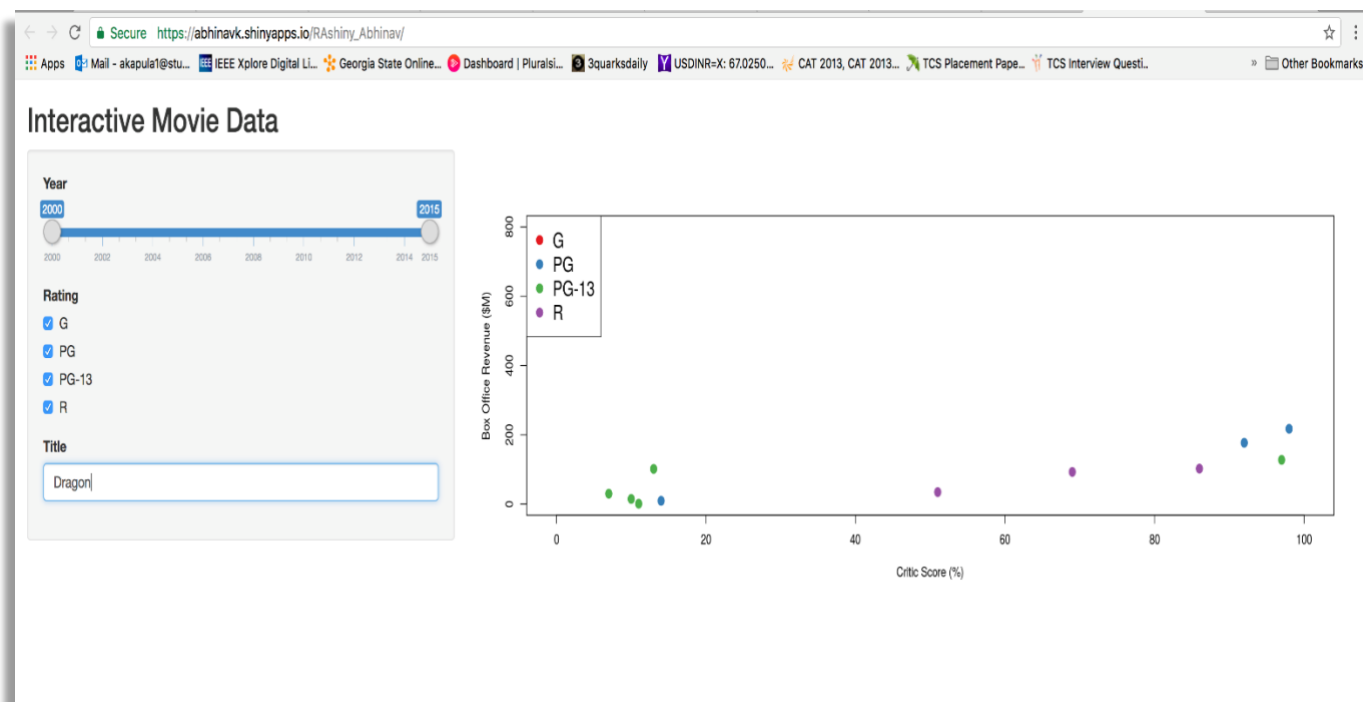


Fig3: Visualization of ratings for the Dragon movie on desktop

- 4) Visualization of all ratings of movies, which released during 2008 to 2012 on desktop.

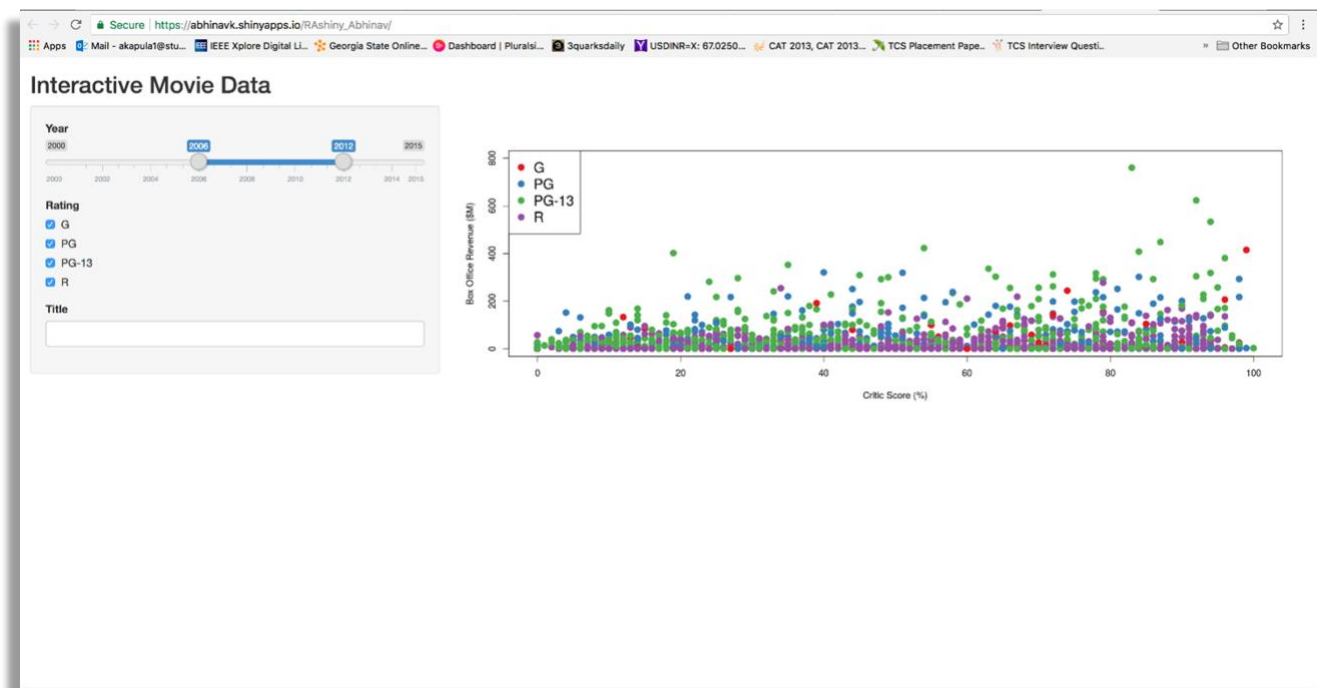


Fig4: Visualization of ratings of movies released during 2006 to 2012

- 5) Visualization of only PG-13 rating movies, which released during 2000 to 2015.

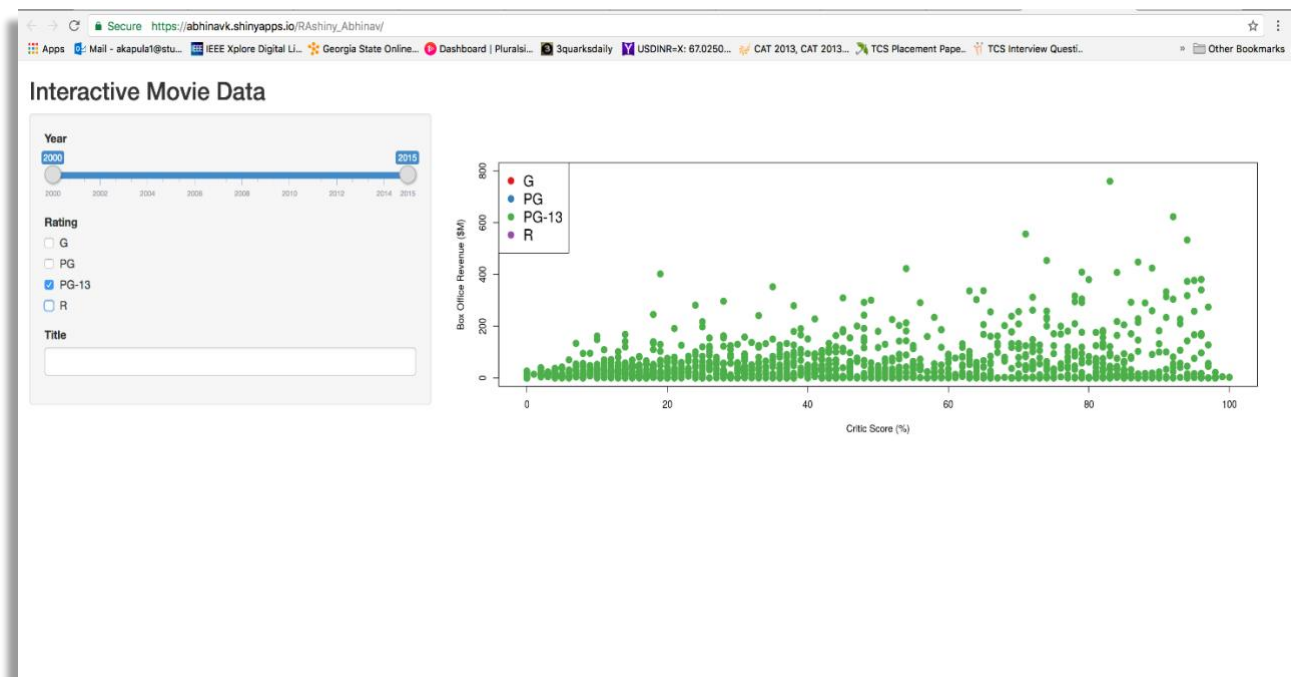


Fig5: Visualization of parental guidance(PG) rating movies

- 6) Visualization of all ratings of movies, which released during 2000 to 2015 on android mobile.

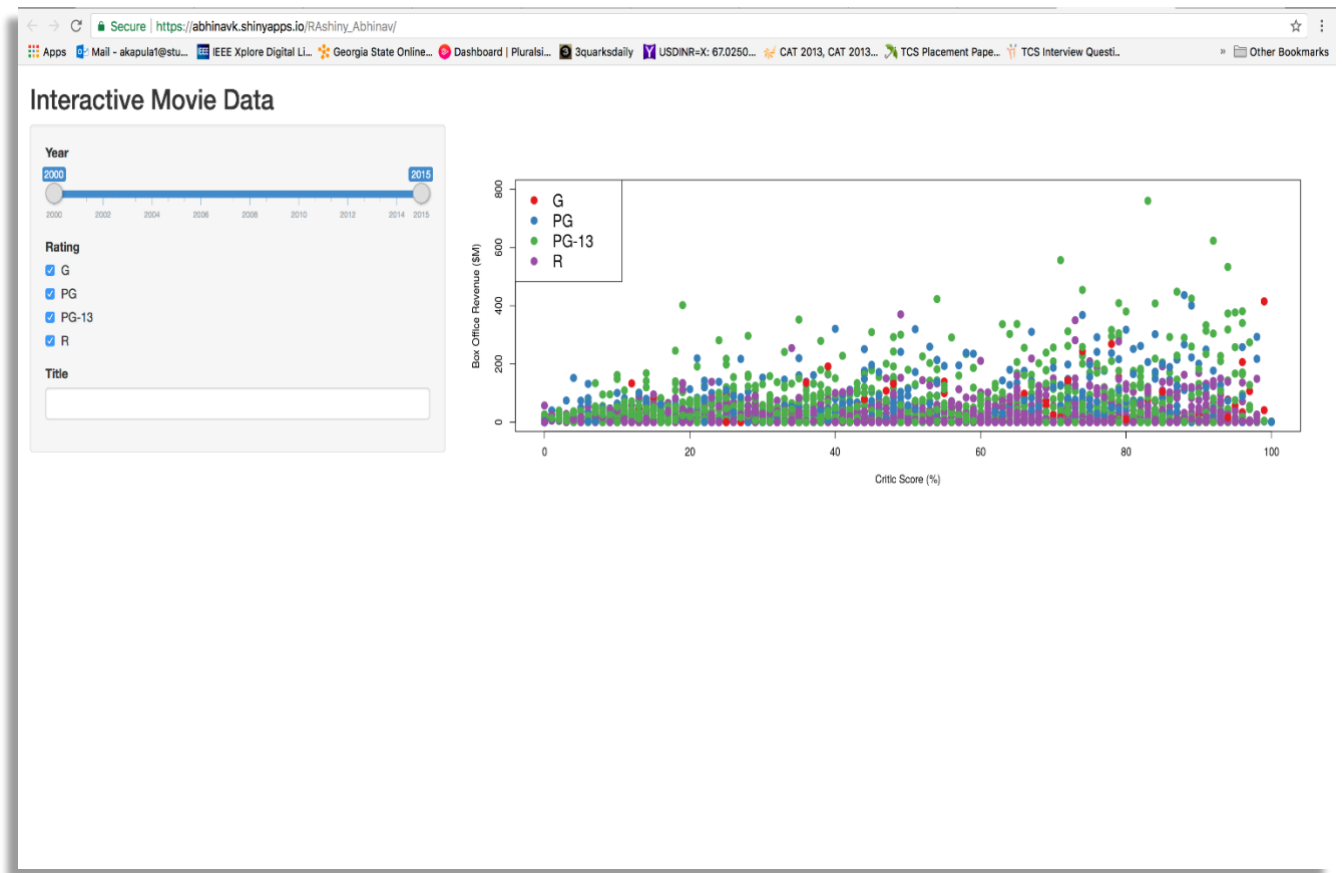


Fig6: Visualization on desktop

- 7) Visualization of all ratings of movies, which released during 2000 to 2015 on IPAD.

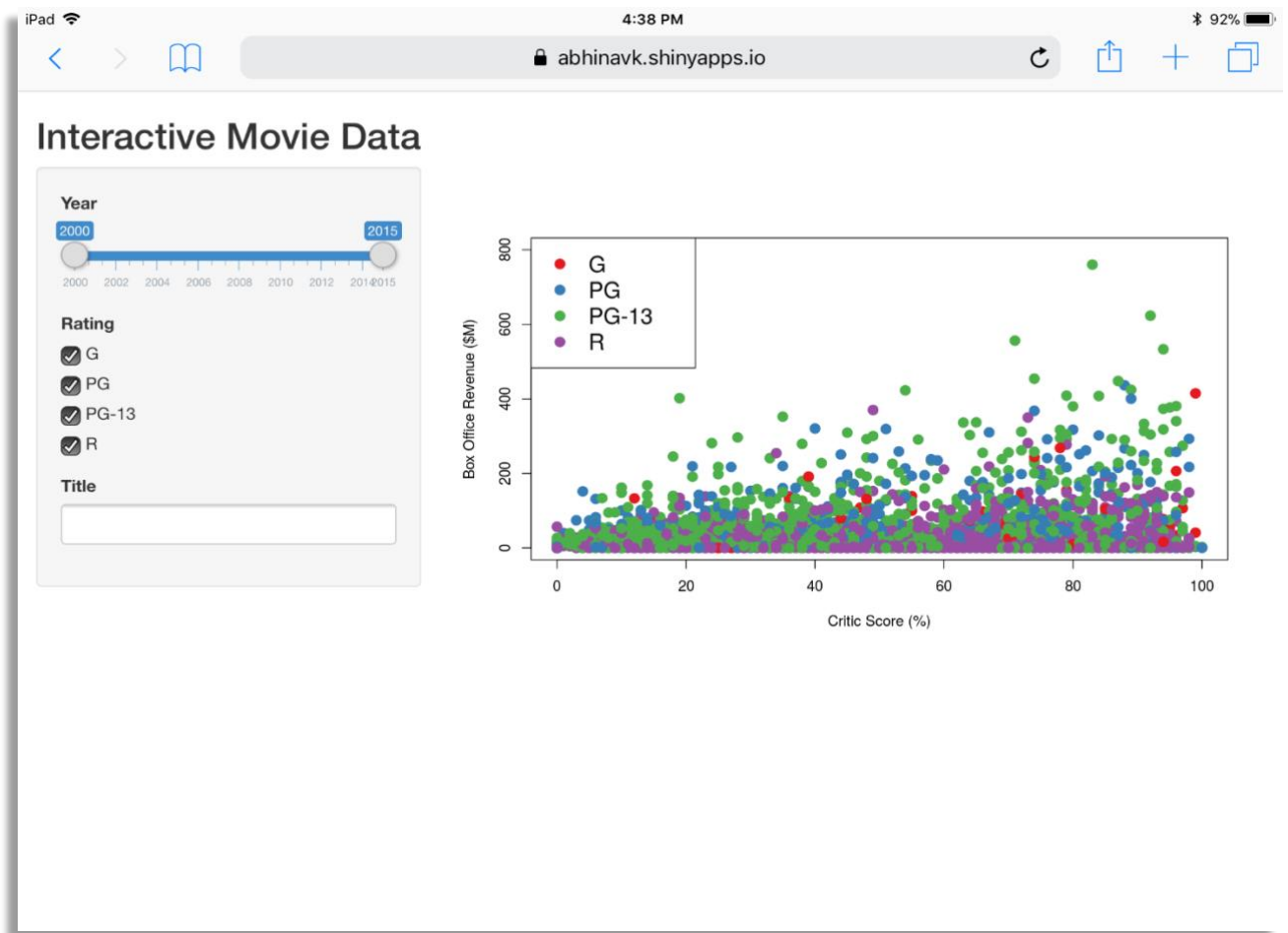


Fig7: Visualization of ratings of movies on IPAD

Deployed App Link:

https://abhinavk.shinyapps.io/RAshiny_Abhinav/