# 18F-0240\_7A\_MovieRatingAnalysis

18F-0240

# 12/19/2021

#### R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Google Trend Analysis

Github link: "https://github.com/HuzaifahZia/Google-Search-Analytics-/blob/main/18F-0240\_7A\_Google-TrendsAnalytics.Rmd"

Installing Libraries

```
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.1.2
library(ggthemes)
## Warning: package 'ggthemes' was built under R version 4.1.2
library(scales)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
```

### library(lessR)

```
## Warning: package 'lessR' was built under R version 4.1.2
##
## lessR 4.1.3 feedback: gerbing@pdx.edu web: lessRstats.com/new
## > d <- Read("") Read text, Excel, SPSS, SAS, or R data file
    d is default data frame, data= in analysis routines optional
## Learn about reading, writing, and manipulating data, graphics,
## testing means and proportions, regression, factor analysis,
## customization, and descriptive statistics from pivot tables.
     Enter: browseVignettes("lessR")
##
## View changes in this new version of lessR.
    Enter: help(package=lessR) Click: Package NEWS
##
    Enter: interact() for access to interactive graphics
## Attaching package: 'lessR'
## The following object is masked from 'package:dplyr':
##
##
       recode
## The following object is masked from 'package:scales':
##
##
       rescale
movies = do.call(rbind,strsplit(readLines('movies.dat'),'::',fixed=T))
movies <- as.data.frame(movies)
head(movies)
##
          V1
## 1 0000008
                    Edison Kinetoscopic Record of a Sneeze (1894)
## 2 0000010
                             La sortie des usines LumiÃ"re (1895)
## 3 0000012
                                    The Arrival of a Train (1896)
          25 The Oxford and Cambridge University Boat Race (1895)
## 5 0000091
                                       Le manoir du diable (1896)
## 6 0000131
                                          Une nuit terrible (1896)
##
## 1
       Documentary | Short
## 2
       Documentary|Short
## 3
       Documentary | Short
## 4
                      25
            Short | Horror
## 6 Short|Comedy|Horror
```

```
colnames(movies) <- c("ID", "Title", "Genre")</pre>
movies$ID <- as.numeric(movies$ID)</pre>
head(movies)
##
      ID
                                                          Title
                                                                              Genre
## 1
                Edison Kinetoscopic Record of a Sneeze (1894)
                                                                  Documentary | Short
## 2
                         La sortie des usines LumiÃ"re (1895)
    10
                                                                  Documentary | Short
## 3 12
                                 The Arrival of a Train (1896)
                                                                  Documentary | Short
## 4 25 The Oxford and Cambridge University Boat Race (1895)
                                                                                  25
## 5 91
                                    Le manoir du diable (1896)
                                                                       Short | Horror
## 6 131
                                      Une nuit terrible (1896) Short | Comedy | Horror
ratings = read.delim("ratings.dat", header= FALSE ,sep = ':', colClasses = c(NA, "NULL"))
head(ratings)
##
     V1
             V3 V5
## 1 1
        114508 8 1381006850
## 2 2 499549 9 1376753198
## 3 2 1305591 8 1376742507
     2 1428538 1 1371307089
## 5
    .3
          75314 1 1595468524
## 6
        102926 9 1590148016
colnames(ratings) <- c("User","ID","Ratings","Timestamp")</pre>
head(ratings)
##
               ID Ratings Timestamp
     User
## 1
                        8 1381006850
        1 114508
## 2
        2 499549
                        9 1376753198
## 3
        2 1305591
                        8 1376742507
## 4
        2 1428538
                        1 1371307089
## 5
            75314
                        1 1595468524
## 6
        3 102926
                        9 1590148016
data = merge(movies,ratings,by = "ID")
data = data[with(data, order(ID)),]
head(data)
##
     ID
                                                         Title
                                                                           Genre
## 1 8
               Edison Kinetoscopic Record of a Sneeze (1894) Documentary|Short
## 2 10
                        La sortie des usines LumiÃ"re (1895) Documentary|Short
## 3 12
                                The Arrival of a Train (1896) Documentary|Short
## 4 25 The Oxford and Cambridge University Boat Race (1895)
                                                                              25
                                   Le manoir du diable (1896)
                                                                    Short | Horror
## 5 91
                                   Le manoir du diable (1896)
## 6 91
                                                                    Short | Horror
##
      User Ratings Timestamp
## 1 42898
                 5 1396981211
## 2 70577
                10 1412878553
## 3 69535
                10 1439248579
## 4 37628
                 8 1488189899
## 5 54465
                 7 1562928526
## 6 37239
                 5 1532347349
```

